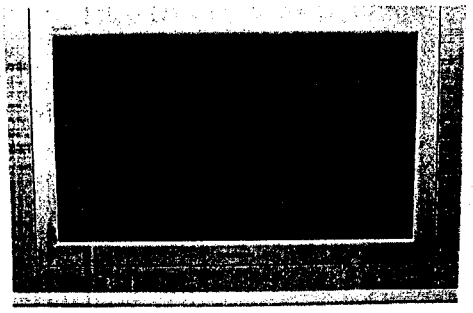
PANASONIC TX-32DK20

MODEL

SERVICE MANUAL

ORDER No. 01-SM-012

Service Manual



Colour Television

EURO- 4H Chassis

SPECIFICATIONS

Power Source:	220-240V a.c., 50Hz	
Power Consumption:	124W	
Standby Power Consumption:	1,4W	
Aerial Impedance:	75Ω unbalanced, Coaxial Type	
Receiving System:	PAL-I, B/G, H, D/K, PAL-525/60	
	SECAM B/G, D/K, L/L'	
	M.NTSC (AV only)	
	NTSC (AV only)	
Receiving Channels:		
VHF E2-E12	VHF H1-H2 (ITALY)	
VHF A-H (ITALY)	VHF R1-R2	
VHF R3-R5	VHF R6-R12	
UHF E21-E69	CATV (S01-S05)	
CATV S1-S10 (M1-M10)	CATV S11-S20 (U1-U10)	
CATV S21-S41 (HYPERBAND)		
Intermediate Frequency:		
Video	38,9MHz, 33,9MHz	
Sound	33,4MHz (B/G), 33,16MHz (A2)	
	33,05MHz (NICAM B/G,D/K,L)	
	32,4MHz (D/K),32,66MHz(CZ STEREO)	
	32,9MHz (I)	
	40,4MHz (L'), 39,75MHz (L'NICAM)	
Colour	34,47MHz (PAL)	
	34,5MHz, 34,65MHz (SECAM)	
	38,3MHz, 38,15MHz (SECAM L')	
Video/Audio Terminals:		
AUDIO MONITOR OUT	Audio (RCAx2)	500mV rms1kΩ
AV1 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	RGB (21 pin)	0,7V p-p 75Ω
AV1 OUT	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
AV2 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	S-Video IN	Y: 1V p-p 75Ω
	(21 pin)	C: 0,3V p-p 75Ω
AV2 OUT	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
AV3 IN	S-Video IN	Y: 1V p-p 75Ω
	(4 pin)	C: 0,3V p-p 75Ω
	Audio (RCAx2)	500mV rms10kΩ
	Video (RCAx1)	1V p-p 75Ω
High Voltage:	30,5kV ±1kV	
Picture Tube:	W66EKT50X71	66cm
Audio Output:	2x7W RMS, 2x15W MPO	
	8Ω Impedance	
Headphones	8Ω Impedance	
Accessories supplied:	Remote Control	
	2 x R6 (UM3) Batteries	
Dimensions:		
Height:	508,8mm	
Width:	763,2mm	
Depth:	512,2mm	
Net Weight:	42kg	

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.
NOTE: This Service Manual should be used in conjunction with the EURO-4H technical guide.

TECHNISCHE DATEN

Netzspannung:	220-240V a.c., 50Hz	
Leistungsaufnahme:	124W	
Standby Leistungsaufnahme:	1,4W	
Antennenimpedanz:	75Ω asymmetrisch, Koaxial-Typ	
Empfangssystem:	PAL-I, B/G, H, D/K, PAL-525/60	
	SECAM B/G, D/K, L/L'	
	M.NTSC (nur AV Eingang)	
	NTSC (nur AV Eingang)	
Empfangsbereiche:		
VHF E2-E12	VHF H1-H2 (ITALY)	
VHF A-H (ITALY)	VHF R1-R2	
VHF R3-R5	VHF R6-R12	
UHF E21-E69	CATV (S01-S05)	
CATV S1-S10 (M1-M10)	CATV S11-S20 (U1-U10)	
CATV S21-S41 (HYPERBAND)		
Zwischenfrequenz:		
Video	38,9MHz, 33,9MHz	
Sound	33,4MHz (B/G), 33,16MHz (A2)	
	33,05MHz (NICAM B/G,D/K,L)	
	32,4MHz (D/K),32,66MHz(CZ STEREO)	
	32,9MHz (I)	
	40,4MHz (L'), 39,75MHz (L'NICAM)	
Colour	34,47MHz (PAL)	
	34,5MHz, 34,65MHz (SECAM)	
	38,3MHz, 38,15MHz (SECAM L')	
Video/Audio Anschlüsse:		
AUDIO MONITOR OUT	Audio (RCAx2)	500mV rms1kΩ
AV1 EINGANG	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	RGB (21 pin)	0,7V p-p 75Ω
AV1 AUSGANG	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
AV2 EINGANG	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	S-Video IN	Y: 1V p-p 75Ω
	(21 pin)	C: 0,3V p-p 75Ω
AV2 AUSGANG	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
AV3 EINGANG	S-Video IN	Y: 1V p-p 75Ω
	(4 pin)	C: 0,3V p-p 75Ω
	Audio (RCAx2)	500mV rms10kΩ
	Video (RCAx1)	1V p-p 75Ω
Hochspannung:	30,5kV ±1kV	
Bildrohre:	W66EKT50X71	66cm
Ton Ausgangsleistung:	2x7W RMS,2x15W MPO	
Lautsprecher	8Ω Impedanz	
Kopfhörer:	8Ω Impedanz	
Mitgel. Zubehör:	Fernbedienung	
	2 x R6 (UM3) Batterien	
Abmessungen:		
Höhe:	508,8mm	
Breite:	763,2mm	
Tiefe:	512,2mm	
Gewicht:	42kg	

Änderungen der Technisichen Daten vorbehalten.
Gewichte und Abmessungen sind Näherungsangaben.
Hinweis: Bitte verwenden Sie das Service Manual zusammen mit dem Technical Guide.

Panasonic

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 31,5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

SICHERHEITSVORKEHRUNGEN

ALLGEMEINE RICHTLINIEN

1. Es ist empfehlenswert einen Trenntransformator in die Stromversorgung zu schalten, bevor Reparaturen an einem Gerät vorgenommen werden, dessen Chassis unter Spannung steht.
2. Bei der Durchführung von Servicearbeiten dürfen die ursprünglichen Kabelanschlüsse nicht vertauscht werden. Dies gilt insbesondere für die Anschlüsse im Hochspannungsteil. Hat sich ein Kurzschluß ereignet, dann sind alle Teile, an denen Spuren von Überhitzung sichtbar sind, auszuwechseln.
3. Nach Beenden der Servicearbeiten ist sicherzustellen, daß alle Sicherheitsvorrichtungen, wie Isolationsstege, Isolationspapiere, Abschirmungen und Isolations -R-C- Glieder wieder richtig eingesetzt sind.
4. Wenn der Fernseher während längerer Zeit nicht in Betrieb gesetzt wird, sollte der Netzstecker aus der Netzsteckdose gezogen werden.
5. Im Betrieb sind Spannungen bis zu 31,5kV in diesem Gerät vorhanden. Die Inbetriebnahme des Fernsehers ohne aufgesetzte Rückwand bringt die Gefahr eines elektrischen Schlages von der Fernseher - Stromversorgung mit sich. Servicearbeiten solten daher auch nie durch Personen versucht werden, die nicht in vollem. Umfang mit den Sicherheitsvorkehrungen beim Umgang mit Hochspannungsgeräten vertraut sind. Vor der Handhabung mit der Bildröhre ist die Anode der Bildrohre immer an dem Empfängerchassis zu entladen.
6. Nach Beenden der Servicearbeiten sind die folgenden Kriechstrom-Prüfungen durchzuführen, um den Kunden vor der Gefahr eines elektrischen Schlages zu schützen.

MESSUNG DES ISOLATIONSWIDERSTANDES IM ABGESCHALTETEN ZUSTAND

1. Den Netsztecker aus der Netzsteckdose ziehen und die beiden Steckerstifte kurzschließen.
2. Den Geräteschalter des Fernsehgerätes einschalten.
3. Mit einem Ohmmeter den Widerstandswert zwischen dem überbrückten Netzkabelsteckerund jendem zugänglichen Metallteil am Gehäuse des Fernsehgerätes, wie Schraubenköpfe, Antennen, Achsen der Regler, Griffassungen usw.messen. Wenn ein zugängliches Metallteil keine Rückleitung zum Chassis hat, Muß die Anzeige unendlich betrgen.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4 V rms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

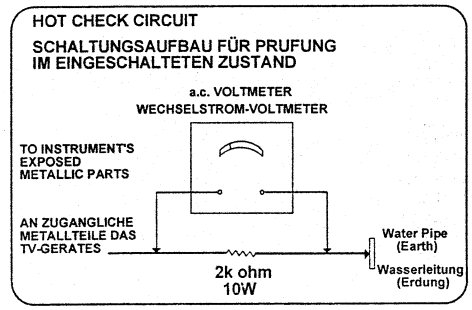


Fig. 1
Abb. 1

X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 31,5kV without causing X-Radiation.

NOTE : It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate: 30,5kV ± 1kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

MESSUNG DES KRIECHSTROMS IM EINGESCHALTETEN ZUSTAND

1. Den Netzstecker direkt in eine Netsteckdose stecken. Für diese Messung keinen Trenntransformator verwenden.
2. Einen 2kΩ / 10W-Widerstand in Serie mit einem von außen zugänglichen Metallteil am Fernsehgerät und einer guten, Erdung z.B Wasserleitung, anschließen.
3. Ein Wechselstrom-Voltmeter mit einem Meßbereich von 1000 Ohm.Volt oder größer verwenden, um die Spannung über den Widerstand zu messen.
4. Jedes zugängliche Metallteil prüfen, und an jedem Punkt dies Spannung messen.
5. Den Netztecker umgekehrt in die Steckdose stecken und jede der obigen Messungen wiederholen.
6. Die Spannung darf an keinem der Punkte 1,4V eff. überschreiten. Wird dieser Wert nicht eingehalten, besteht die Gefar eines elektrischen Schlages, und das Fernsehgerät sollte daher repariert und nachgeprüft werden, bevor es an den Kunden zurückgegeben wird.

RÖNTGENSTRAHLUNG ACHTUNG :

1. Potentielle Quellen von Röntgenstrahlung in Fernsehgeräten sind das Hochspannungsteil und die Bildröhre.
2. Bei Verwendung eines Bildröhren-Prüfgerätes für den Service ist sicherzustellen, daß es für die Belastung von 31,5kV geeignet ist, ohne daß eine Röntgenstrahlung verursacht wird.

ANMERKUNG : Es ist wichtig, daß ein präzises, regelmäßig geprüftes Voltmeter verwendet wird.

1. Helligkeit auf Minimum stellen.
2. Die Hochspannung messen. Die Anzeige des Instrumentes sollte: 30,5kV ± 1kV. Falls die Anziege diese Toleranzgrenzen überschreitet, ist die sofortige Behebung nötig, um die Möglichkeit vorzeitigen Komponentenausfalls zu verhüten.
3. Um die Möglichkeit von Röntgenstrahlung zu begrenzen, ist es wichtig, daß nur die vorgeschriebene Bildröhre verwendet wird.

SERVICE HINTS

HOW TO REMOVE THE REAR COVER

1. Remove the 10 screws as shown in **Fig. 2.**

SERVICE HINWEISE

ENTFERNEN DER GERÄTERÜCKWAND

1. Die 10 Schrauben entfernen, siehe **Abb. 2.**

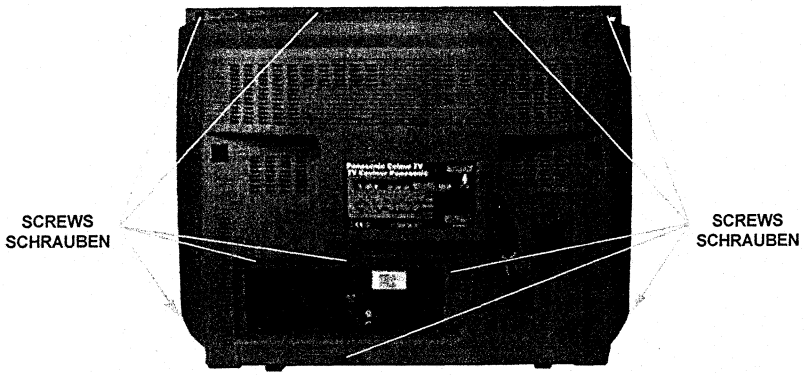


Fig. 2
Abb. 2

LOCATION OF CONTROLS

LAGE DER EINSTELLREGLER

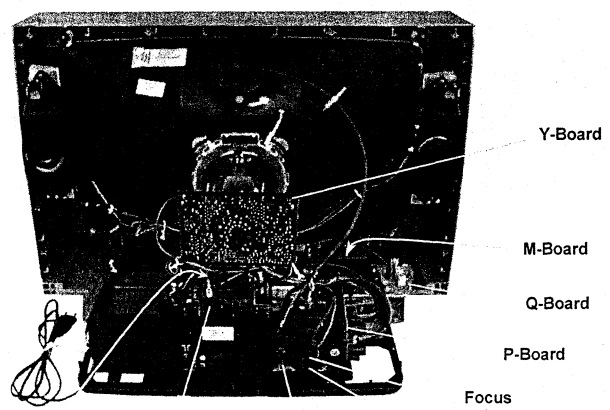


Fig. 3
Abb. 3

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove 2 screws **(A),** as shown in **Fig.4.**, and remove speaker assembly.
2. Hold and lift the rear of the chassis and gently pull the chassis toward you, as shown in **Fig.4.**
3. Release the respective wiring clips.
4. Elevate the chassis as shown in **Fig .5.**
5. Using a speaker screw, screw the chassis frame into the top speaker fixing rib **(B),** as shown in **Fig.6**.
6. After servicing replace the speaker, and ensure all wiring is returned to its original position before returning the receiver to the customer.

SERVICE POSITION FÜR DAS CHASSIS

1. Die 2 Schrauben **(A)** entfernen, wie in **Abb.4.** dargestellt, und die Lautsprechereinheit herausnehmen.
2. Das Chassis leicht anheben und nach hinten herausziehen, wie in **Abb. 4.** dargestellt.
3. Entsprechende Kabelklemmen losmachen.
4. Das Chassis, wie in **Abb. 5.** gezeigt, herausheben.
5. Mit einer Lautsprecherschraube den Chassisrahmen durch das Langloch auf der rechten Seite des Rahmens im oberen Befestigungsloch des Latsprechers fixieren. Siehe **Abb.6.**
6. Nach Beendigung der Reparatur ist sicherzustellen, daß sich alle Kabel in ihrer ursprünglichen Position befinden.

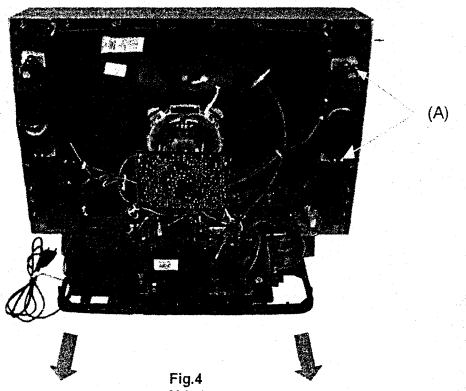


Fig.4
Abb.4

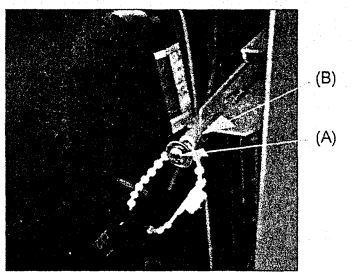
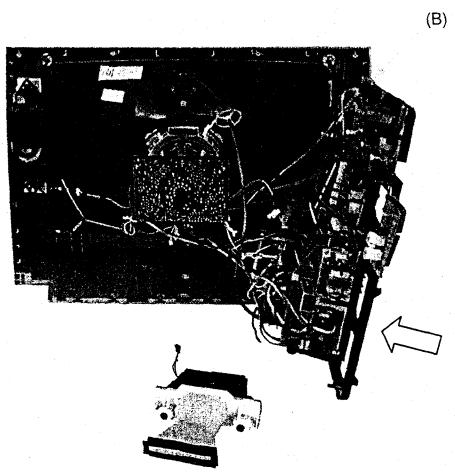


Fig.6.
Abb.6.



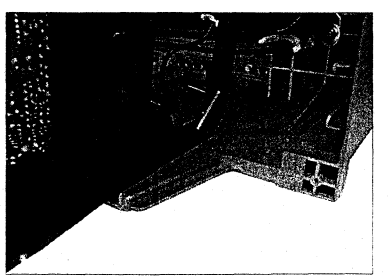


Fig.5
Abb.5

SELF CHECK

1. Self-check is used to automatically check the bus lines and hexadecimal code of the TV set.

2. To get into the Self-Check mode press the **STATUS** button on the remote control and at the same time press the down (**-/v**) button on the customer controls at the front of the set, and the screen will show :

SELBSTDIAGNOSE

1. Die Selbstdiagnose dient zum automatischen Prüfen der Bus-Leitungen sowie des Hexadezimalcodes des FS-Geräts. Zum Umschalten auf Selbstdiagnose zunächst die Taste "**STATUS**" auf der Fernbedienung und gleichzeitig die-Taste am Bedienteil des FS-Gerätes drücken (**-/v**), auf dem Bildschirm erscheint hierauf :

2. Nach der Selbstdiagnose wird das Gerät automatisch auf sämtliche werksseitigen Standardeinstellungen zurückgesetzt :

VPC	O.K.	PCB	O.K.
CIP	O.K.	CAB	O.K.
SRC	O.K.		
DDP	O.K.		
TUN	O.K.		
E2	O.K.		
MSP	O.K.		
DPL	- - -		

TX-28PL10D:		**TX-28PL10F:**	
OPTION1	39	OPTION1	39
OPTION2	7F	OPTION2	7F
OPTION3	0F	OPTION3	0F
OPTION4	40	OPTION4	40
OPTION5	FF	OPTION5	FD
OPTION6	A5	OPTION6	A5

If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.".
Wenn der Hauptprozesser (CCU) an den Anschlüssen einen Fehler erkennt, oder der entsprechende Anschluss nicht belegt ist, zeigt die entsprechende Position " - - " anstelle von OK an.

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

- **LUCI** interface kit (**L**inked **U**tility **C**omputer **I**nterface)
  Part number: TZS6EZ002
  This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.

- **VICI** (**V**isual **I**nteractive **C**omputer **I**nformation)
  These C.D.'s contain multimedia documentation providing quick access to service information.
  Part No.
  TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001
  1. Service Manuals
  2. Instruction Books
  3. Technical Information

- **TASMIN** (**T**echnically **A**dvanced **S**ystem for **M**ultimedia **I**nteractive **N**otes)
  As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

- Extended cable kit Y2-E8 connector for service position (Fig.6.). Part No.: TZS9EK012.

Service-Hilfen

Zur Unterstützung der Servicearbeiten stehen weitere Hilfsmittel zur Verfügung.

- **LUCI** interface kit (PC-unterstütztes Diagnosesystem)
  Bestell-Nr.: TZS6EZ002
  Es beinhaltet ein Interface, die Anschlusskabel zum FS-Gerät und die Diagnose-Software. Bei Einführung von neuen Modellen ist ein Update der Software jederzeit möglich.

- **VICI** (Interaktive CD-ROM) mit schnellem Zugiff auf Serviceinformationen.
  Bestell-Nr.:
  TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001
  1. Service Manuals
  2. Bedienungsanleitungen
  3. Technical Information

- **TASMIN** (Technisch erweitertes System für interaktive Multimedia-Hinweise und Notizen)
  Genauso wie dieses Produkt einen ersten Schritt in Richtung erweitertes interaktives Training bereitstellt, ermöglicht es einen noch schnelleren Zugang zu technischen Informationen.

- Verlängerungskabelvorrichtung zur Verbindung Y2-E8 (Abb.6.); Bestell-Nr.: TZS9EK012.

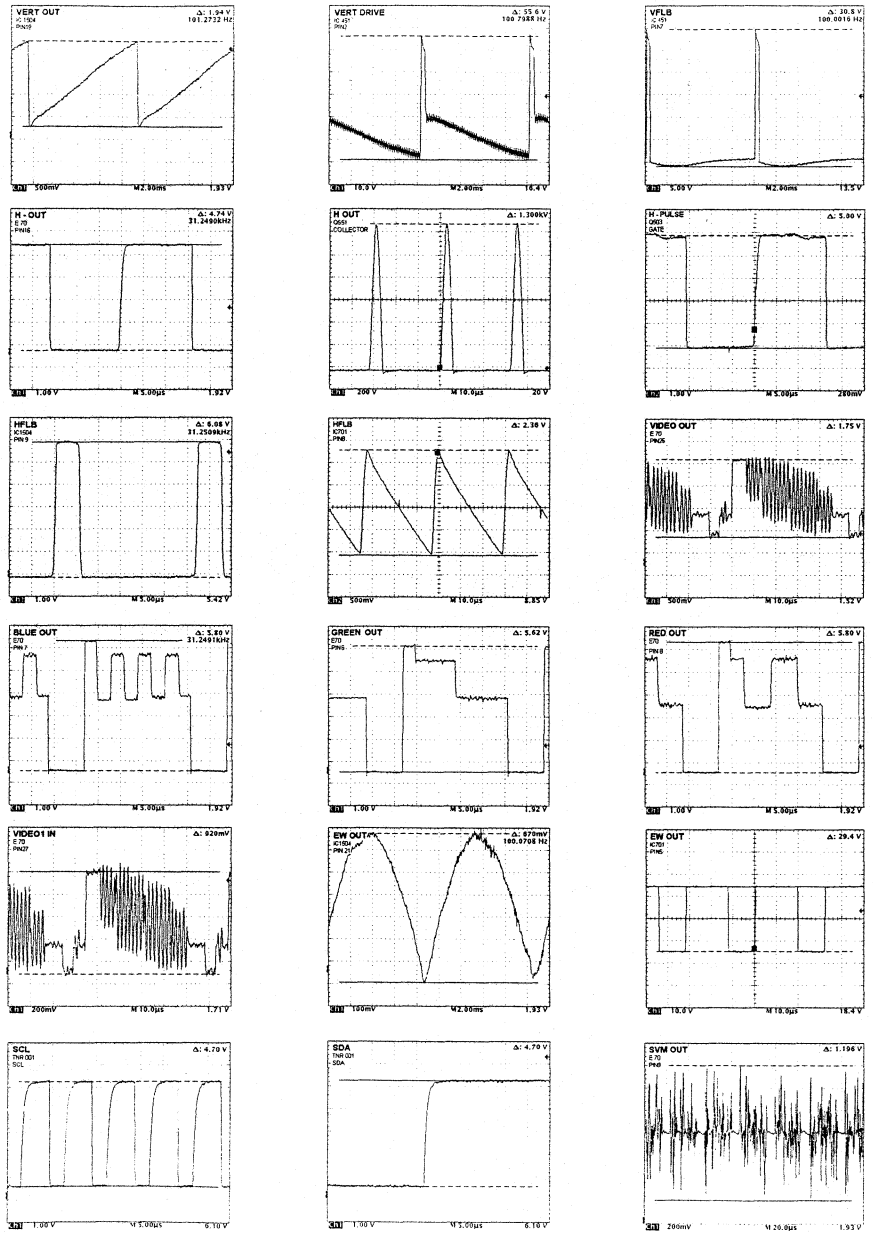
ADJUSTMENT PROCEDURE

Item/Preparation	Adjustments
+B SET-UP 1. Receive a Greyscale signal. 2. Set the controls:- Brightness: Minimum Contrast: Minimum Volume: Minimum	1. Confirm the following voltages. **B2** 148 ± 2V **B9** 5 ± 0,25V **B10** 5 ± 0,25V **B5** 12 ± 0,5V **B11** 33 ± 1,5V **B4** 15 ± 1V **B7** 8 ± 0,5V **B12** 26 ± 2V **B8** 7 ± 1V **B3** 36 ± 1,5V **B13** 16 ± 1V **B1** 205 ± 10V **B14** -14 ± 1V
Cut-Off / Ug2 Test 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cutoff mode.	Connect an oscilloscope to the Blue cathode, adjust "Screen" until the black level is 155V±3V. Remove the oscilloscope.

ABGLEICH

Vorbereitungen	Abgleich
+B - Abgleich 1. Testbild empfangen. Helligkeit auf: Minimum Kontrast auf: Minimum Lautstärke: Minimum	1. Folgende Spannungen sind zu überprüfen. **B2** 148 ± 2V **B9** 5 ± 0,25V **B10** 5 ± 0,25V **B5** 12 ± 0,5V **B11** 33 ± 1,5V **B4** 15 ± 1V **B7** 8 ± 0,5V **B12** 26 ± 2V **B8** 7 ± 1V **B3** 36 ± 1,5V **B13** 16 ± 1V **B1** 205 ± 10V **B14** -14 ± 1V
Cut-Off / Ug2 Test 1. Testbild empfangen. 2. Bildröhre entmagnetisieren. 3. Service-Mode 1 anwählen. 4. Im Service-Mode den Abgleichpunkt Cutoff DC-Mode wählen.	Das Oszilloskop an blaue Kathode anschließen, den Wert „SCREEN" so einstellen, dass das schwarze Niveau 155 ± 3V beträgt. Das Oszilloskop abschalten.

WAVEFORM PATTERN TABLE SIGNAL TABELLE

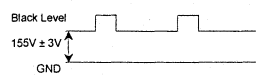


CONDITIONS: CONTRAST...MAX, BRIGHTNESS...MID, COLOUR...MID, SHARPNESS...MID

ALIGNMENT SETTINGS:

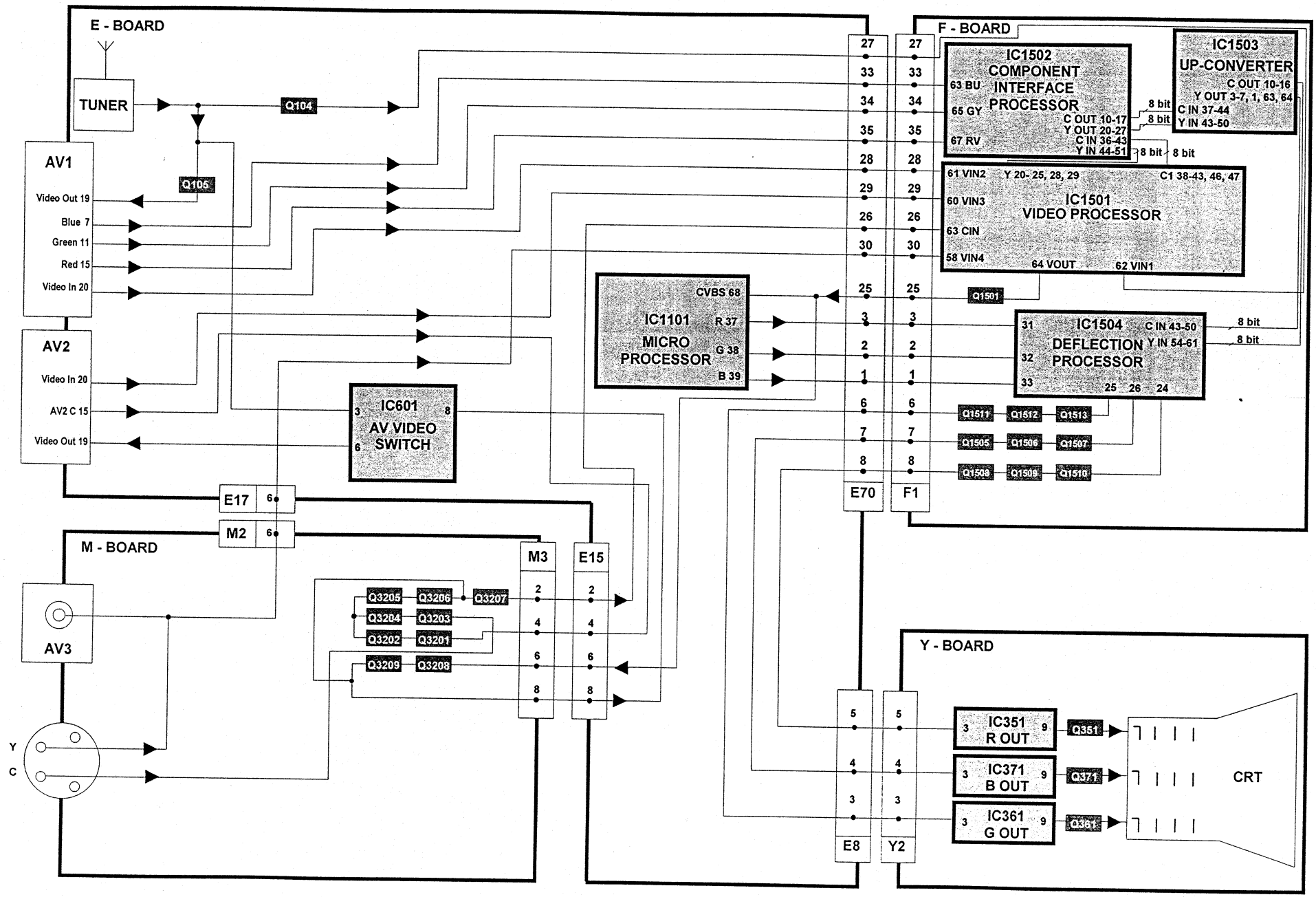
(The figures below are nominal and used for representative purposes only.)

1. Set the Bass to maximum position, set the Treble to minimum position, set the Volume to minimum then press the down button (**-/v**) on the customer controls at the front of the TV and at the same time press the **INDEX** button on the remote control, this will place the TV into the Service Mode.
2. Press the **RED / GREEN** buttons to step up / down through the functions.
3. Press the **YELLOW / BLUE** buttons to alter the function values.
4. Press the **STR** button after each adjustment has been made to store the required values.
5. To exit the Service Mode, press the "**N**" button.

Alignment Function		Settings / Special features
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V- Amp 054	Optimum setting.
EW-amplitude	EW-Amp1 - 030	Optimum setting.
Lower corner	Lower corner 007	Optimum setting.
Trapezium-comp	Trapez 1 047	Optimum setting.
Upper corner	Upper corner 006	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
Angle	Angle 000	Optimum setting.
Bow	Bow 005	Optimum setting.
DVCO	DVCO - 005	Receive a PAL Colour Bar Pattern. For DVCO alignment press "**Blue**" button, wait until the colours are changing slowly and press "**STR**".
Cut-off DC	Cut-off 0100	Connect an oscilloscope to the blue cathode, adjust "**Screen**" value until the black level is 155V±3V. Remove the oscilloscope.
Ug2 Test	Ug2 0101 O.K.	
Highlight Lowlight	High 0396 0357 0374 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 000	Optimum setting.

VIDEO BLOCK DIAGRAM

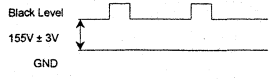
BILDSIGNAL BLOCKSCHEMA



ABGLEICHTABELLE

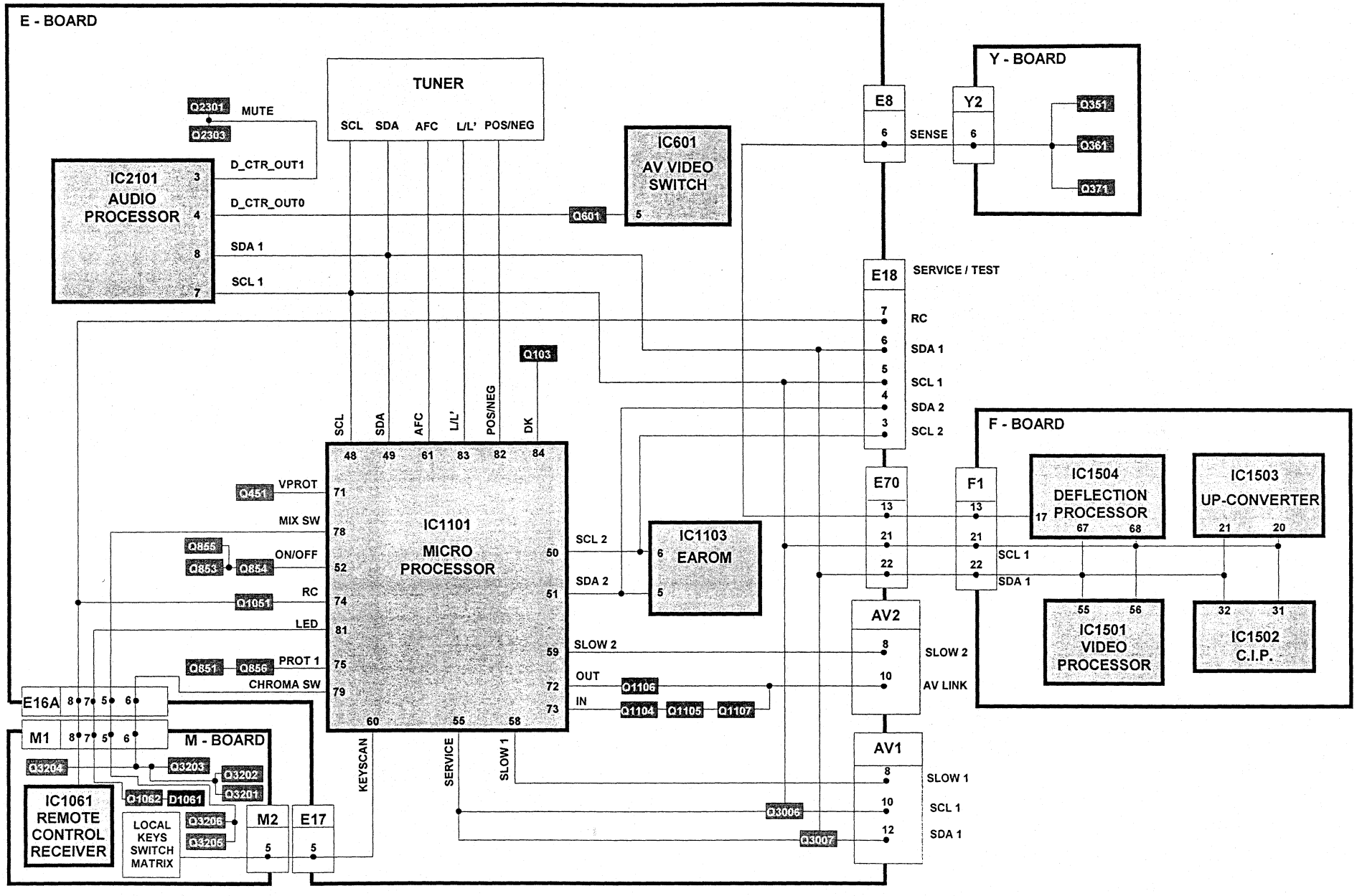
(Die angegebenen Werte sind Mittelwerte und Können individuell nach oben oder unten nach dem korrekten Abgleich abweichen.)

1. Um in den Service-Mode zu gelangen, gehen sie bitte wie folgt vor.
2. Stellen sie im Toneinstellungs-Menü die Bässe auf Maximun, die Höhen auf Minimum und die Lautstärke auf Minimum.
3. Halten sie die **INDEX**-Taste auf der Fernbedienung gedrückt und drücken zusätzlich die Taste **-/v** im Bedienteil des TV-Gerätes. Auf dem Bildschirm erscheint die entsprechende Anzeige für den Service-Mode.
4. Die einzelnen Funktionen mit Hilfe der **ROTEN** und **GRÜNEN** Taste anwählen.
5. Mit der **GELBEN** und **BLAUEN** Taste die Werte der einzelnen Funktionen ändern.
6. Nach jeder Einstellung die Taste **STR** auf der Fernbedienung drücken, um die geänderten Werte abzuspeichern.
7. Zum Verlassen des Service-Modus die "**N**" - Taste auf der Fernbedienung drücken.

Abgleichfunktion		**Einstellung / Besondere Merkmale**
Horizontale position	H-Pos 061	Optimale Einstellung.
Vertikale Position	V-Pos 005	Optimale Einstellung.
Horizontale Amplitude	H-Amp 055	Optimale Einstellung.
Vertikale Amplitude	V-Amp 054	Optimale Einstellung.
OW-amplitude	EW-Amp1 - 030	Optimale Einstellung.
Lower corner	Lower corner 007	Optimale Einstellung.
Trapez-Kompensation	Trapez 1 047	Optimale Einstellung.
Upper corner	Upper corner 006	Optimale Einstellung.
Vertikale linearität	V-Lin 006	Optimale Einstellung.
Vertikale Symmetrie	V-Sym 002	Optimale Einstellung.
Angle	Angle 000	Optimale Einstellung.
Bow	Bow 005	Optimale Einstellung.
DVCO	DVCO - 005	Ein Farbbalken-Testbild empfangen. Zum Abgleich des Farboszillators (DVCO) die **blau** Taste drücken. Nachdem ein leichtes Flackern in den Farbbalken zum Stillstand gekommen ist, die **STR**-Taste drücken.
Cut-off	Cut-off 0100	Das Oszilloskop an blaue Kathode anschließen, den Wert „SCREEN" so einstellen, dass das schwarze Niveau 155 ± 3V beträgt. Das Oszilloskop abschalten. 
Ug2 Test	Ug2 0101 O.K.	
Highlight Lowlight	High 0396 0357 0374 Low 0117 0132 0112	Optimale Einstellung.
Sub-Brightness	Sub-Brightness 000	Optimale Einstellung.

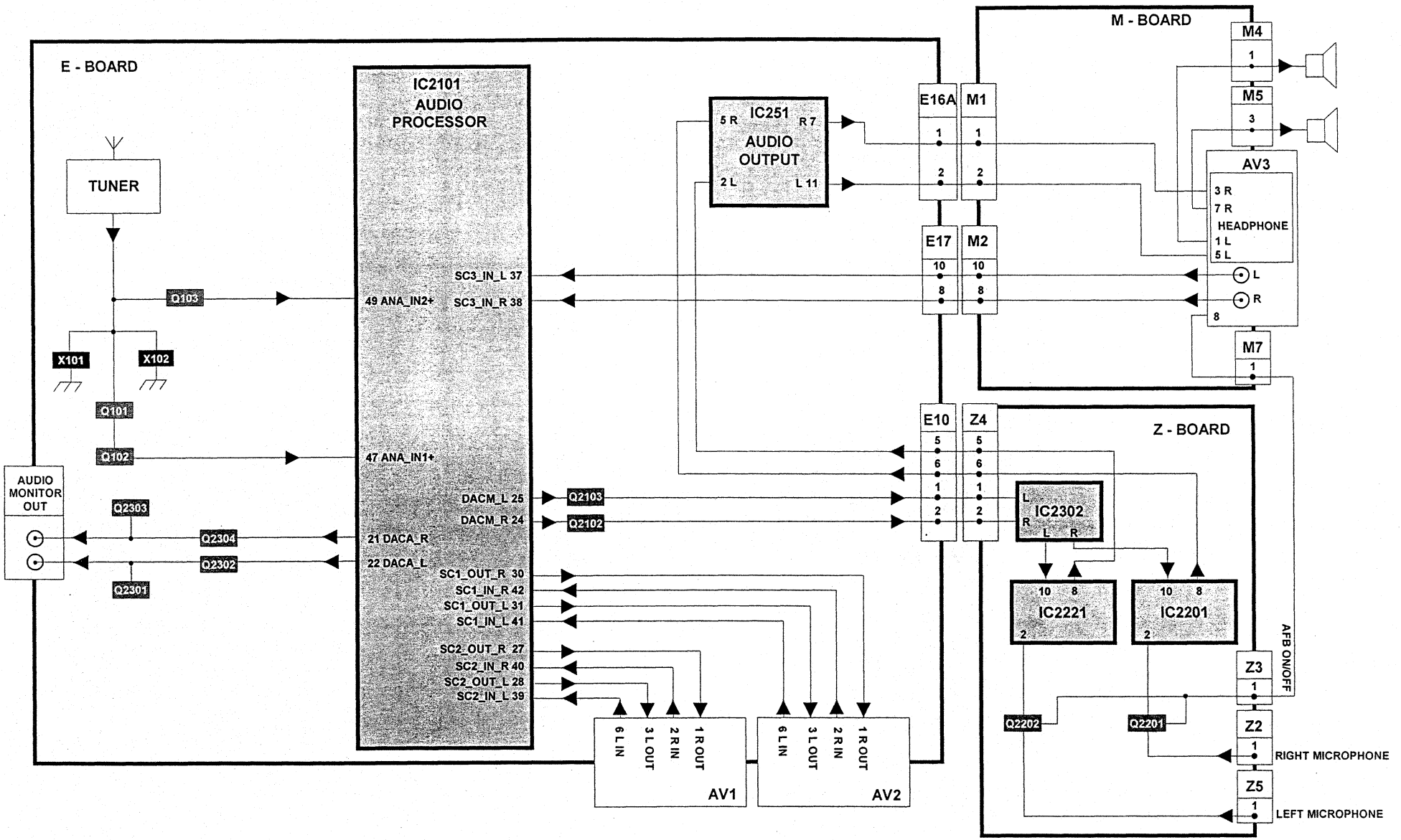
CONTROL BLOCK DIAGRAM

KONTROLL BLOCKSCHEMA



AUDIO BLOCK DIAGRAM

TONSIGNAL BLOCKSCHEMA

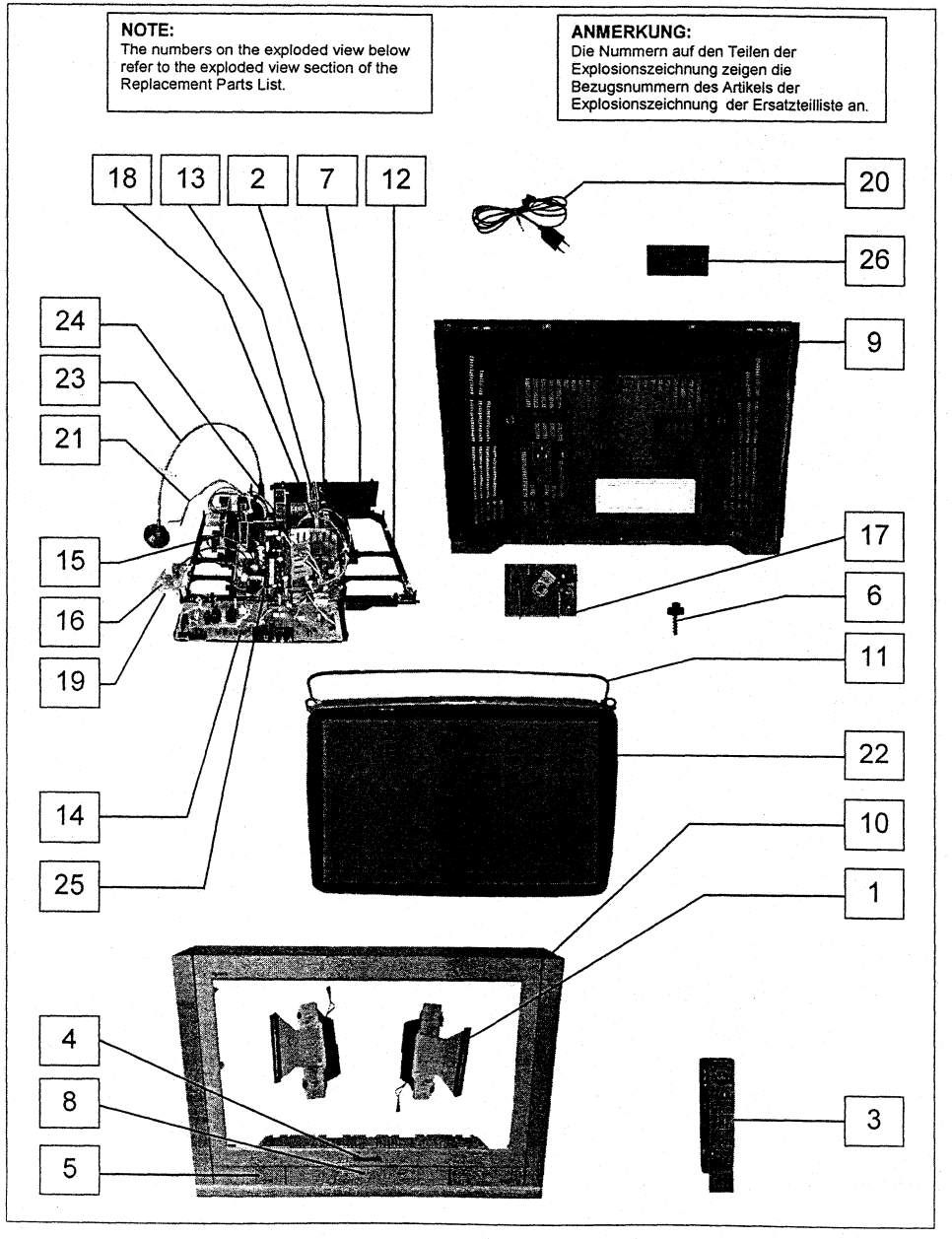


PARTS LOCATION

EXPLOSIONSZEICHNUNG

NOTE:
The numbers on the exploded view below refer to the exploded view section of the Replacement Parts List.

ANMERKUNG:
Die Nummern auf den Teilen der Explosionszeichnung zeigen die Bezugsnummern des Artikels der Explosionszeichnung der Ersatzteilliste an.



REPLACEMENT PARTS LIST

Important Safety Notice
Components Identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturers specified parts.
* In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description	
COMMON PARTS			
EXPLODED VIEW			
1	EABG12506C2	SPEAKER	
2	ENG29505GR	TUNER	
3	EUR511211	REMOTE CONTROL	
4	TBMA060	PANASONIC BADGE	
5	TBX8E089-2	POWER BUTTON	
6	THT1062	CRT FIXING SCREW	
7	TKP0E10101	REAR AV COVER	
8	TKP8E1430	DOOR LID	
9	TKU8E00682	BACK COVER	⚠
10	TKY8E561-1	CABINET	
11	TLK0E9006	DEGAUSS COIL	⚠
12	TMX8E036-2	CHASSIS FRAME	
13	TNP8EF007AC	F P.C.B.	⚠
14	TNP8EM025AD	M P.C.B.	⚠
15	TNP8EP017AU	P P.C.B.	⚠
16	TNP8EQ002AH	Q P.C.B.	⚠
17	TNP8EY018BB	Y P.C.B.	⚠
18	TNP8EZ003AH	Z P.C.B.	⚠
19	TUX8E053	METAL FRAME	
20	TXASX01CTYG1	AC CORD ASSY	⚠
21	TXJ/FC0DEG1	FOCUS LEAD ASSY	⚠
22	W66EKT50X71	CRT	⚠
23	ZTBZAD550A	ANODE CABLE	⚠
24	ZTFM05010A	F.B.T.	⚠
MISCELLANEOUS COMPONENTS			
.	R6RC/2P	BATTERY	
.	TBLG3019	SET FOOT (FRONT)	
.	TBLG3020	SET FOOT (REAR)	
.	TBM8E2137	PRESET LABEL	
.	TBM8E2138	PRESET LABEL	
.	TEK6935	LID SWITCH	
.	TES8E20	POWER BUTTON SPRING	
.	TKK0E9501	SPEAKER REFLECTOR	
.	TKP8E1370	SPEAKER PANEL L	
.	TKP8E1375	SPEAKER PANEL P	
.	TKP8E1380-1	BOTTOM PANEL L	
.	TKP8E1390	BOTTOM PANEL R	
.	TKP8E1431-1	LED COVER	
.	TMK8E169	MICA SHEET	
.	TMK8E171	SPEAKER FOAM	
.	TMMJ031P	RUBBER DAMPER	
.	TMW8E045-1	CONTROL BRACKET	
.	TMW8E050	LED HOLDER	
.	TPC8E4905	CARTON ASSY	

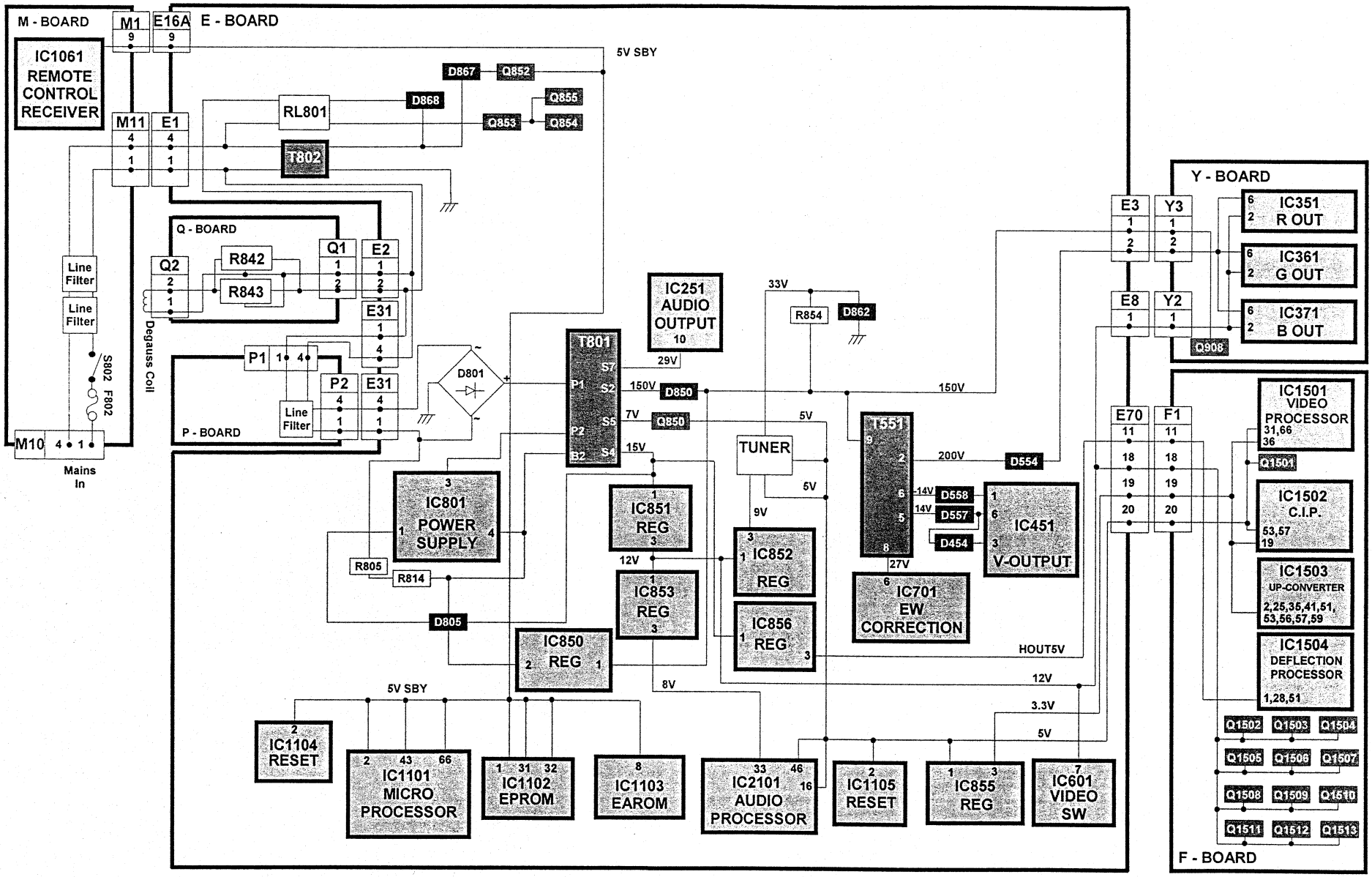
ERSATZTEILLISTE

Wichtiger Sicherhitshinweis
Teile, die mit einen Hinweis ⚠ gekennzeichnet sind wichtig für die Sicherhet. Solite ein Auswechsein erfordelrich sein, sind unbdingt Originalteile einzusetzen.
Bei der Bestellung von Ersatzteilen, di mit * gekennzeichnet sind, geben Sie bitte unbedingt die vollständige Typenbezeicnung mit an.

Cct Ref	Parts Number	Description	
.	TPD8E757	TOP CUSHION	
.	TPD8E758	BOTTOM CUSHION	
DEGC	TLK0E9008	ROTATION COIL	
IC1101S	PCSZT-084A-1	IC SOCKET	
PCH2	TMX8E041-1	SUPPORTBRACKET	
I.C.s			
IC251	LA4282	AUDIO OUTPUT	
IC351	TDA6111Q/N4	RGB OUTPUT	
IC361	TDA6111Q/N4	RGB OUTPUT	
IC371	TDA6111Q/N4	RGB OUTPUT	
IC381	TL431CLPM	REGULATOR	
IC451	LA7845N	VERTICAL OUTPUT	
IC601	TEA2114	VIDEO SWITCHING	
IC701	TEA2031A	E/W CORRECTION	
IC801	STRF6656LF57	POWER SUPPLY	
IC850	SE140NLF4	ERROR IC	
IC851	BA12T	12V REGULATOR	
IC852	AN78M09LB1	9V REGULATOR	
IC853	AN78L08TA	8V REGULATOR	
IC855	BA033T	3.3V REGULATOR	
IC856	AN7805LB	5V REGULATOR	
IC1061	RPM-6937	LED RECEIVER	
IC1101	SDA5450C59	MICRO PROCESSOR	
IC1102	M27C2000PC12	EPROM *	
IC1103	BR24C16	EAROM	
IC1104	MN1381-R(TA)	RESET	
IC1105	MN1381-T(TA)	RESET	
IC1501	VPC3215CB8TP	VIDEO PROCESSOR	
IC1502	CIP3250APSB1	C.I.P.	
IC1503	SDA9400	MICRO PROCESSOR	
IC1504	DDP3310BPSE4	VIDEO PROCESSOR	
IC1900	LA6515	EARTH CORRECTION	
IC2101	MSP3410DPOC5	AUDIO PROCESSOR	
IC2201	AN6554NSF-E2	OPERATIONAL AMPLIFIER	
IC2221	AN6554NSF-E2	OPERATIONAL AMPLIFIER	
IC2302	BA15218F-E2	AMPLIFIER	
FUSES			
F802-1	EYF52BC	FUSE HOLDER	
F802-2	EYF52BC	FUSE HOLDER	
F802	S5055AC	FUSE	⚠
DIODES			
D101	MA3020TX	DIODE	
D102	MA3020TX	DIODE	
D251	TYMD0002	DIODE	
D253	MA700TA	DIODE	
D254	MA700TA	DIODE	
D351	ERA15-04V3	DIODE	
D352	ERA15-04V3	DIODE	
D361	ERA15-04V3	DIODE	
D362	ERA15-04V3	DIODE	
D371	ERA15-04V3	DIODE	
D372	ERA15-04V3	DIODE	

POWER SUPPLY BLOCK DIAGRAM

STROMVERSORGUNGS BLOCKSCHEMA



Cct Ref	Parts Number	Description			
CRYSTALS					
X1101	AI060006AD	CRYSTAL			
X1501	4730007267	CRYSTAL			
X1502	4730007341	CRYSTAL			
X2101	4730007158	CRYSTAL			
RESISTORS					
C510	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
C2214	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
C2234	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA1	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA2	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA3	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA4	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA5	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA6	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA7	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA8	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA9	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA10	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA10	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA12	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA13	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA13	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA14	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA15	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA16	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA17	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA18	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA18	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA19	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA19	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA20	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA20	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA101	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA102	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA103	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA104	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA105	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA106	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA107	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA108	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA109	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA110	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA111	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA112	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA113	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA114	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA115	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA116	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA117	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA118	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA119	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA200	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA201	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA202	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA204	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JA205	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JA206	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JSE10	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSE12	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSE13	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSE18	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSE26	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSE33	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSE35	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSE42	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω

Cct Ref	Parts Number	Description			
JSE43	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSE48	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JSE49	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JSF1	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JSF2	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JSF3	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω
JSM7	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSM8	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSM10	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
JSY04	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R101	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R102	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R103	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R104	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R105	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R106	ERJ6GEYJ680V	S.M.CARB	0.1W	5%	68 Ω
R107	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R108	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R109	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R110	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R111	ERJ6GEYJ393V	S.M.CARB	0.1W	5%	39K Ω
R112	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R113	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R116	ERJ6GEYJ562V	S.M.CARB	0.1W	5%	5K6 Ω
R117	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω
R118	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R121	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R251	ERJ6GEYJ680V	S.M.CARB	0.1W	5%	68 Ω
R252	ERJ6GEYJ152V	S.M.CARB	0.1W	5%	1K5 Ω
R253	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R254	ERJ6GEYJ680V	S.M.CARB	0.1W	5%	68 Ω
R255	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R256	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R257	ERJ6GEYJ680V	S.M.CARB	0.1W	5%	68 Ω
R258	ERJ6GEYJ152V	S.M.CARB	0.1W	5%	1K5 Ω
R259	ERJ6GEYJ680V	S.M.CARB	0.1W	5%	68 Ω
R260	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R261	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R262	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R263	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω
R264	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R265	ERDS2TJ2R2T	CARBON	0.25W	5%	2R2 Ω
R266	ERDS2TJ2R2T	CARBON	0.25W	5%	2R2 Ω
R267	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω
R268	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R269	ERQ14AJ101P	METAL	0.25W	5%	100 Ω
R271	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R272	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω
R350	ERQ12AJ151P	FUSIBLE	0.5W	5%	150 Ω
R352	ERJ6GEYJ202V	S.M.CARB	0.1W	5%	2K Ω
R355	ERG1ANJP683H	METAL	0.5W	5%	68K Ω
R356	ERJ6GEYJ181V	S.M.CARB	0.1W	5%	180 Ω
R357	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω
R358	ERDS1TJ821V	CARBON	0.5W	5%	820 Ω
R360	ERO50PKF8251	METAL	0.5W	5%	8M2 Ω
R362	ERJ6GEYJ202V	S.M.CARB	0.1W	5%	2K Ω
R365	ERG1ANJP683H	METAL	0.5W	5%	68K Ω
R366	ERJ6GEYJ181V	S.M.CARB	0.1W	5%	180 Ω
R367	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω
R368	ERDS1TJ821V	CARBON	0.5W	5%	820 Ω
R372	ERJ6GEYJ202V	S.M.CARB	0.1W	5%	2K Ω
R375	ERG1ANJP683H	METAL	0.5W	5%	68K Ω
R376	ERJ6GEYJ181V	S.M.CARB	0.1W	5%	180 Ω
R377	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω
R378	ERDS1TJ821V	CARBON	0.5W	5%	820 Ω
R382	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω

Cct Ref	Parts Number	Description			
R383	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R385	ERQ12HJ1R2P	METAL	0.5W	5%	1R2 Ω
R394	ERJ6GEYJ821V	S.M.CARB	0.1W	5%	820 Ω
R396	ERJ6GEYJ821V	S.M.CARB	0.1W	5%	820 Ω
R398	ERJ6GEYJ821V	S.M.CARB	0.1W	5%	820 Ω
R451	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R452	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R453	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R454	ERJ6GEYJ393V	S.M.CARB	0.1W	5%	39K Ω
R455	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R456	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω
R457	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R458	ERDS1TJ1R0T	CARBON	0.5W	5%	1 Ω
R459	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R460	ERG1SJ221P	METAL	1W	5%	220 Ω
R461	ERX2SJS1R5H	FUSIBLE	2W	5%	1R5 Ω
R463	ERDS2TJ222T	CARBON	0.5W	5%	2K2 Ω
R464	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω
R465	ERJ6GEYJ821V	S.M.CARB	0.1W	5%	820 Ω
R467	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R502	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R503	ERJ6GEYJ105V	S.M.CARB	0.1W	5%	1M Ω
R507	ERX3SJS4R7H	METAL	3W	5%	4R7 Ω
R509	ERG1SJ272E	METAL	1W	5%	2K7 Ω
R510	ERG1SJ272E	METAL	1W	5%	2K7 Ω
R551	ERX3SJSR22H	METAL	3W	5%	R22 Ω
R555	ERQ12HKR82P	FUSIBLE	0.5W	10%	R82 Ω
R558	ERDS1TJ124T	CARBON	0.5W	5%	120K Ω
R559	ERQ12HKR82P	FUSIBLE	0.5W	10%	R82 Ω
R560	ERJ6GEYJ274V	S.M.CARB	0.1W	5%	270K Ω
R561	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R563	ERJ6GEYJ564V	S.M.CARB	0.1W	5%	560K Ω
R564	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω
R566	ERJ6GEYJ563V	S.M.CARB	0.1W	5%	56K Ω
R567	ERF7ZK1R0	WOUND	7W	10%	1 Ω
R568	ERDS1TJ120T	CARBON	0.5W	5%	12 Ω
R569	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R571	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω
R572	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R573	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R581	ERG3FJ331H	METAL	3W	5%	330 Ω
R582	ERG3FJ471H	METAL	3W	5%	470 Ω
R583	ERG3FJ821H	METAL	3W	5%	820 Ω
R603	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R604	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R605	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R606	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R607	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R608	ERJ6GEYJ201V	S.M.CARB	0.1W	5%	200 Ω
R609	ERJ6GEYJ201V	S.M.CARB	0.1W	5%	200 Ω
R610	ERJ6GEYJ242V	S.M.CARB	0.1W	5%	2K4 Ω
R611	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω
R612	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R620	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R622	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R647	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R648	ERJ6GEYJ332V	S.M.CARB	0.1W	5%	3K3 Ω
R650	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R701	ERQ12AJ330P	METAL	0.5W	5%	330 Ω
R702	ERX2SJS2R7H	FUSIBLE	2W	5%	2R7 Ω
R703	ERG2FJ821H	METAL	2W	5%	820 Ω
R704	ERJ6GEYJ563V	S.M.CARB	0.1W	5%	56K Ω
R705	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω
R706	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R707	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R708	ERJ6GEYJ393V	S.M.CARB	0.1W	5%	39K Ω

Cct Ref	Parts Number	Description			
R709	ERJ6GEYJ393V	S.M.CARB	0.1W	5%	39K Ω
R710	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω
R711	ERG1SJ101E	METAL	1W	5%	100 Ω
R712	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R714	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R715	ERDS2TJ272T	CARBON	0.25W	5%	2K7 Ω
R716	ERQ12AJ680P	METAL	0.5W	5%	68 Ω
R718	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R719	ERJ6GEYJ224V	S.M.CARB	0.1W	5%	220K Ω
R720	ERJ6GEYJ105V	S.M.CARB	0.1W	5%	1M Ω
R721	ERJ6GEYJ563V	S.M.CARB	0.1W	5%	56K Ω
R805	ERD25TJ473T	CARBON	0.25W	5%	47K Ω
R806	ERD25TJ100T	CARBON	0.25W	5%	10 Ω
R807	ERD25TJ332T	CARBON	0.25W	5%	3K3 Ω
R809	ERD25TJ681T	CARBON	0.25W	5%	680 Ω
R810	ERW2PKR22P	WOUND	2W	10%	R22 Ω
R811	ERW2PKR22P	WOUND	2W	10%	R22 Ω
R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω ⚠
R813	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω
R814	ERD25TJ473T	CARBON	0.25W	5%	47K Ω
R815	ERD25TJ222T	CARBON	0.25W	5%	2K2 Ω
R817	ERDS2TJ104T	CARBON	2W	5%	100K Ω
R850	ERD25TJ122T	CARBON	0.25W	5%	1K2 Ω
R852	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R853	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R854	ERG2FJ223H	METAL	2W	5%	22K Ω
R855	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω
R856	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω
R857	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω
R858	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω
R859	ERJ6GEYJ753V	S.M.CARB	0.1W	5%	75K Ω
R861	ERDS2TJ221T	CARBON	0.5W	5%	220 Ω
R862	ERDS2TJ272T	CARBON	0.25W	5%	2K7 Ω
R863	ERDS1TJ560T	CARBON	0.5W	5%	56 Ω
R864	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω
R865	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R867	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R868	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R869	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R870	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω
R871	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω
R872	ERG1SJ183P	METAL	1W	5%	18K Ω
R873	ERG1SJ223P	METAL	1W	5%	22K Ω
R874	ERDS2TJ104T	CARBON	2W	5%	100K Ω
R876	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R877	ERW2PKR47P	WOUND	2W	10%	R47 Ω
R878	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω
R879	ERG3FJ680H	METAL	3W	5%	68 Ω
R880	ERG5FJ120H	METAL	5W	5%	12 Ω
R882	ERG2FJ120H	METAL	2W	5%	12 Ω
R890	ERX1FJ3R9P	FUSIBLE	1W	5%	3R9 Ω
R913	ERJ6GEYJ183V	S.M.CARB	0.1W	5%	18K Ω
R914	ERJ6GEYJ332V	S.M.CARB	0.1W	5%	3K3 Ω
R915	ERJ6GEYJ821V	S.M.CARB	0.1W	5%	820 Ω
R916	ERJ6GEYJ221V	S.M.CARB	0.1W	5%	220 Ω
R917	ERJ6GEYJ121V	S.M.CARB	0.1W	5%	120 Ω
R918	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R919	ERQ14AJW390E	FUSIBLE	0.25W	5%	39 Ω
R920	ERQ14AJW390E	FUSIBLE	0.25W	5%	39 Ω
R922	ERDS2TJ683T	CARBON	2W	5%	68K Ω
R923	ERDS2TJ683T	CARBON	2W	5%	68K Ω
R924	ERDS1FYJ390T	CARBON	0.5W	5%	39 Ω
R925	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R926	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R927	ERDS2TJ122T	CARBON	0.25W	5%	1K2 Ω
R928	ERDS2TJ5R6T	CARBON	0.25W	5%	5R6 Ω

Cct Ref	Parts Number	Description
D376	1SS133T-77	DIODE
D377	1SS133T-77	DIODE
D378	1SS133T-77	DIODE
D387	MA2160LFS	DIODE
D453	1SS133T-77	DIODE
D454	EU02V0	DIODE
D456	MTZJT-777.5B	DIODE
D457	1SS133T-77	DIODE
D458	T3A206022	DIODE
D501	1SS133T-77	DIODE
D502	1SR124-4AT82	DIODE
D511	MA4047MTA	DIODE
D553	1SR124-4AT82	DIODE
D554	1SR124-4AT82	DIODE
D556	1SS133T-77	DIODE
D557	TVSRU2AMLFA1	DIODE
D558	EU02V0	DIODE
D560	RH3GLF102	DIODE
D561	UDZSTE-1722B	DIODE
D562	1SS355TE-17	DIODE
D580	FMV-3GULF730	DIODE
D601	1SS133T-77	DIODE
D602	1SS133T-77	DIODE
D603	1SS133T-77	DIODE
D604	1SS133T-77	DIODE
D609	1SR124-4AT82	DIODE
D617	MA3068MTX	DIODE
D620	1SS133T-77	DIODE
D701	1SS133T-77	DIODE
D702	MTZJT-775.6B	DIODE
D704	MA29T-BTA	DIODE
D705	MTZJT-776.2B	DIODE
D706	MA165TA5VT	DIODE
D707	AU02V0	DIODE
D708	1SS133T-77	DIODE
D709	MTZJT-7736A	DIODE
D710	MTZJT-7716C	DIODE
D801	RBV-608LF-B	DIODE
D803	1SR124-4AT82	DIODE
D804	1SR124-4AT82	DIODE
D805	SFH617A-20P6	PHOTO COUPLER ⚠
D806	1SR124-4AT82	DIODE
D850	RU4BLF-L1	DIODE
D851	MTZJT-776.2B	DIODE
D852	1SS133T-77	DIODE
D853	TYMD0002	DIODE
D854	S3L20U04P15	DIODE
D855	D10SC6MRL	DIODE
D856	RU4AMLF-M1	DIODE
D857	MTZJT-775.1A	DIODE
D858	1SS133T-77	DIODE
D859	1SS133T-77	DIODE
D860	1SS133T-77	DIODE
D861	1SS133T-77	DIODE
D862	MTZJT-7736A	DIODE
D863	1SS133T-77	DIODE
D864	1SS133T-77	DIODE
D865	1SS133T-77	DIODE
D866	1SS133T-77	DIODE
D867	EK06-V0	DIODE
D868	1N4150T-77	DIODE
D869	1N4150T-77	DIODE
D870	1SS133T-77	DIODE
D871	1N4150T-77	DIODE
D873	MTZJT-775.6C	DIODE
D874	1SR124-4AT82	DIODE

Cct Ref	Parts Number	Description
D875	BZX79A75A26A	DIODE
D890	1SS133T-77	DIODE
D891	1SS133T-77	DIODE
D901	1SS133T-77	DIODE
D902	1SS133T-77	DIODE
D903	1SS133T-77	DIODE
D907	1SS133T-77	DIODE
D910	R2KNLFA1	DIODE
D1055	MTZJT-775.1C	DIODE
D1061	SLR-56VR3F	LED
D1101	1SS133T-77	DIODE
D1104	1SS133T-77	DIODE
D1105	1SS133T-77	DIODE
D1131	MTZJT-775.6C	DIODE
D2101	MA723TA5	DIODE
D2102	MA723TA5	DIODE
D2103	MA723TA5	DIODE
D2104	MA723TA5	DIODE
D2105	MTZJT-778.2C	DIODE
D2303	MA723TA5	DIODE
D2304	MA723TA5	DIODE
D3201	MTZJT-778.2C	DIODE
D3202	MTZJT-778.2C	DIODE
D3351	1SS133T-77	DIODE
D3352	1SS133T-77	DIODE
D3353	1SS133T-77	DIODE
D3354	1SS133T-77	DIODE
R842	232266296706	THERMISTOR
R843	232266296706	THERMISTOR
TRANSISTORS		
Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q103	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q253	BC847B	TRANSISTOR
Q254	BC847B	TRANSISTOR
Q351	TYMQ0002	TRANSISTOR
Q361	TYMQ0002	TRANSISTOR
Q371	TYMQ0002	TRANSISTOR
Q451	BC857B	TRANSISTOR
Q503	2SK2962TPE6	TRANSISTOR
Q551	2SC5144LB228	TRANSISTOR
Q552	2SC1473ATA	TRANSISTOR
Q553	BC847B	TRANSISTOR
Q601	BC847B	TRANSISTOR
Q701	BC857B	TRANSISTOR
Q702	BC847B	TRANSISTOR
Q703	IRF644R	TRANSISTOR
Q850	2SD2396/K	TRANSISTOR
Q851	BC857B	TRANSISTOR
Q852	2SD1858TV2	TRANSISTOR
Q853	BC847B	TRANSISTOR
Q854	BC847B	TRANSISTOR
Q855	BC847B	TRANSISTOR
Q856	BC847B	TRANSISTOR
Q857	2SA1018QTA	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1536ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q1051	BC847B	TRANSISTOR
Q1062	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1501	BC847B	TRANSISTOR
Q1502	BC857B	TRANSISTOR
Q1503	BC847B	TRANSISTOR
Q1504	BC847B	TRANSISTOR
Q1505	BC857B	TRANSISTOR
Q1506	BC847B	TRANSISTOR
Q1507	BC847B	TRANSISTOR
Q1508	BC857B	TRANSISTOR
Q1509	BC847B	TRANSISTOR
Q1510	BC847B	TRANSISTOR
Q1511	BC857B	TRANSISTOR
Q1512	BC847B	TRANSISTOR
Q1513	BC847B	TRANSISTOR
Q1514	BC847B	TRANSISTOR
Q1515	BC847B	TRANSISTOR
Q1900	BC847B	TRANSISTOR
Q2101	BC857B	TRANSISTOR
Q2102	BC857B	TRANSISTOR
Q2103	BC857B	TRANSISTOR
Q2201	BC847B	TRANSISTOR
Q2202	BC847B	TRANSISTOR
Q2301	BC847B	TRANSISTOR
Q2302	BC857B	TRANSISTOR
Q2303	BC847B	TRANSISTOR
Q2304	BC857B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3007	BC847B	TRANSISTOR
Q3201	BC847B	TRANSISTOR
Q3202	BC847B	TRANSISTOR
Q3203	BC857B	TRANSISTOR
Q3204	BC857B	TRANSISTOR
Q3205	BC847B	TRANSISTOR
Q3206	BC847B	TRANSISTOR
Q3207	BC847B	TRANSISTOR
Q3208	BC847B	TRANSISTOR
Q3209	BC847B	TRANSISTOR
Q3352	BC857B	TRANSISTOR
TRANSFORMERS		
T501	ETH19Y193AY	TRANSFORMER
T801	10724870	TRANSFORMER ⚠
T802	ETP35KAN619U	TRANSFORMER ⚠
COILS		
J26	EXCELDR35V	COIL
JA11	ELJFC2R2KF	COIL
L101	TLT100K991R	COIL
L102	TLT068K991R	COIL
L103	EXCELSA35B	COIL
L104	TLTACT4R7K	COIL
L105	TLTACTR47K	COIL
L106	TLTACT100K	COIL
L107	TLTACT6R8K	COIL
L114	ELJFC2R2KF	COIL
L115	ELJFC2R2KF	COIL
L301	TLTACT4R7K	COIL
L353	TLT150K991R	COIL
L363	TLT100K991R	COIL
L373	TLT150K991R	COIL
L381	TLT220K991R	COIL
L382	ELESN6R8KA	COIL
L451	EXCELSA35T	COIL
L501	EXCELSA35T	COIL

Cct Ref	Parts Number	Description
L581	ELHKLB026B	COIL
L582	ELC18B221E	COIL
L583	ELC18B150L	COIL
L584	ELHKLB025B	COIL
L586	EXCELDR35C	COIL
L606	ELESN100KA	COIL
L701	ELC18B271E	COIL
L704	ELC10D332E	COIL
L705	EXCELDR35V	COIL
L806	ETQR42T005A	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35T	COIL
L852	ELEIE470KA	COIL
L855	EXCELSA35T	COIL
L856	EXCELSA39E	COIL
L910	EXCELSA35T	COIL
L911	EXCELSA35T	COIL
L912	EXCELSA35T	COIL
L1061	TLT331K991R	COIL
L1103	TLTACT100K	COIL
L1104	EXCELSA35T	COIL
L1105	ELJFC2R2KF	COIL
L1501	ELESN2R2KA	COIL
L1502	ELESN2R2KA	COIL
L1503	ELESN2R2KA	COIL
L1504	ELESN2R2KA	COIL
L1505	ELESN100KA	COIL
L1506	ELESN100KA	COIL
L1507	ELESNR22KA	COIL
L1508	ELESNR22KA	COIL
L1509	ELESN100KA	COIL
L1510	ELESN100KA	COIL
L1514	ELESN100KA	COIL
L1515	ELESNR39KA	COIL
L1516	ELESN4R7KA	COIL
L1517	ELESN4R7KA	COIL
L1518	ELESN4R7KA	COIL
L1519	ELESNR39KA	COIL
L1520	ELESN2R2KA	COIL
L1521	ELESN1R0KA	COIL
L1522	ELESN2R2KA	COIL
L1523	ELESN2R2KA	COIL
L1524	ELESN2R2KA	COIL
L1525	ELESN100KA	COIL
L1526	ELESN100KA	COIL
L1527	ELESN100KA	COIL
L1528	ELESN100KA	COIL
L1529	ELESN100KA	COIL
L1900	EXCELDR25V	COIL
L2101	TLTACT100K	COIL
L2103	EXCELSA35T	COIL
L2104	TLTACT4R7K	COIL
L2202	ELESN2R2KA	COIL
L2222	ELESN2R2KA	COIL
L3001	ELEMV1R5MA	COIL
L3002	ELEMV1R5MA	COIL
L3003	ELEMV1R5MA	COIL
L3004	ELEMV1R5MA	COIL
L3201	ELEBR6R8KA	COIL
L3202	ELEBR6R8KA	COIL
L3204	TLT331K991R	COIL
FILTERS		
L1901	ELF18N012A	LINE FILTER
L1902	ELF18N012A	LINE FILTER
X101	EFCT6504BN	FILTER
X102	EFCT7004BN	CERAMIC FILTER

Cct Ref	Parts Number	Description			
R3049	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3050	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R3057	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3201	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3202	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω
R3203	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω
R3204	ERG2FJ221H	METAL	2W	5%	220 Ω
R3205	ERG2FJ221H	METAL	2W	5%	220 Ω
R3207	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3208	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω
R3209	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3210	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω
R3211	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R3212	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R3213	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3214	ERJ6GEYJ683V	S.M.CARB	0.1W	5%	68K Ω
R3215	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω
R3216	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3217	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R3218	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R3219	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3220	ERJ6GEYJ683V	S.M.CARB	0.1W	5%	68K Ω
R3221	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω
R3222	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R3223	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R3224	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3225	ERJ6GEYJ683V	S.M.CARB	0.1W	5%	68K Ω
R3226	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω
R3227	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3228	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω
R3229	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R3230	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω
R3231	ERJ6GEYJ122V	S.M.CARB	0.1W	5%	1K2 Ω
R3232	ERJ6GEYJ242V	S.M.CARB	0.1W	5%	2K4 Ω
R3233	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R3234	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3354	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3355	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R3356	ERJ6GEYJ681V	S.M.CARB	0.1W	5%	680 Ω
R3357	ERJ6GEYJ681V	S.M.CARB	0.1W	5%	680 Ω
R3358	ERJ6GEYJ681V	S.M.CARB	0.1W	5%	680 Ω
R3360	ERDS1TJ471T	CARBON	0.5W	5%	470 Ω
R3361	ERO50PKF1133	METAL	0.5W	5%	110K Ω
R3362	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3363	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3364	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3601	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3602	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3603	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3614	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω

CAPACITORS

C101	ECJ2VB1C104K	ELECT	350V		100nF
C102	ECJ2VB1C104K	ELECT	350V		100nF
C103	ECJ2VF1H104Z	ELECT	350V		100nF
C105	ECUV1H560JCX	S.M. CAP	50V		56pF
C106	ECUV1H560JCX	S.M. CAP	50V		56pF
C107	ECJ2VF1H104Z	ELECT	350V		100nF
C108	ECA1CM470B	ELECT	16V		47µF
C109	ECUV1H102JCX	S.M. CAP	50V		1nF
C110	ECJ2VF1H103Z	ELECT	350V		10nF
C111	ECA1HMR33B	ELECT	50V		330nF
C114	ECJ2VF1H104Z	ELECT	350V		100nF
C115	ECJ2VF1H103Z	ELECT	350V		10nF
C116	ECA1CM221B	ELECT	16V		220µF
C117	ECJ2VF1H103Z	ELECT	350V		10nF
C118	ECJ2VF1H104Z	ELECT	350V		100nF

Cct Ref	Parts Number	Description			
C119	ECA1CM221B	ELECT	16V		220µF
C120	ECA1CM221B	ELECT	16V		220µF
C121	ECJ2VB1H103K	ELECT	350V		10nF
C124	ECUV1H220JCX	S.M. CAP	50V		22pF
C125	ECUV1H100DCX	S.M. CAP	50V		10pF
C133	ECJ2YB1H104K	ELECT	350V		100nF
C134	ECJ2YB1H104K	ELECT	350V		100nF
C135	ECUV1H104KBW	S.M. CAP	50V		100nF
C136	ECJ2YB1H104K	ELECT	350V		100nF
C138	ECJ2YB1H104K	ELECT	350V		100nF
C251	ECA1EM100B	ELECT	25V		10µF
C252	ECJ2VB1H103K	ELECT	350V		10nF
C253	ECA1HM4R7B	ELECT	50V		4.7µF
C254	ECQV1H274JL3	FILM	50V		270nF
C255	ECA1EM101B	ELECT	25V		100µF
C256	ECJ2VB1H103K	ELECT	350V		10nF
C257	ECA1HM4R7B	ELECT	50V		4.7µF
C258	ECA1EM100B	ELECT	25V		10µF
C259	ECQV1H274JL3	FILM	50V		270nF
C260	ECA1VM102B	ELECT	35V		1000µF
C261	ECA1VM102B	ELECT	35V		1000µF
C262	ECA1HM4R7B	ELECT	50V		4.7µF
C263	ECA1HM010B	ELECT	50V		1µF
C264	ECA1HHG222E	ELECT	50V		2200µF
C265	ECA1HM4R7B	ELECT	50V		4.7µF
C266	ECA1HM010B	ELECT	50V		1µF
C267	ECJ2YB1H104K	ELECT	350V		100nF
C268	ECJ2YB1H104K	ELECT	350V		100nF
C270	ECJ2YB1H104K	ELECT	350V		100nF
C350	ECUV1H102JCX	S.M. CAP	50V		1nF
C352	ECJ2VF1H224Z	ELECT	350V		220nF
C353	ECJ2YB1H104K	ELECT	350V		100nF
C354	ECQE2104KF3	FILM	250V		100nF
C355	ECKR2H102KB5	CERAMIC	500V		1nF
C358	ECUV1H222JCX	S.M. CAP	50V		2.2nF
C360	ECUV1H102JCX	S.M. CAP	50V		1nF
C362	ECJ2VF1H224Z	ELECT	350V		220nF
C363	ECJ2YB1H104K	ELECT	350V		100nF
C364	ECQE2104KF3	FILM	250V		100nF
C365	ECKR2H102KB5	CERAMIC	500V		1nF
C368	ECUV1H222JCX	S.M. CAP	50V		2.2nF
C369	ECUV1H220JCX	S.M. CAP	50V		22pF
C370	ECUV1H102JCX	S.M. CAP	50V		1nF
C372	ECJ2VF1H224Z	ELECT	350V		220nF
C373	ECJ2YB1H104K	ELECT	350V		100nF
C374	ECQE2104KF3	FILM	250V		100nF
C375	ECKR2H102KB5	CERAMIC	500V		1nF
C378	ECUV1H222JCX	S.M. CAP	50V		2.2nF
C381	SMG1CV101MT5	ELECT	16V		100µF
C382	ECA1CM471B	ELECT	16V		470µF
C383	ECJ2VB1H103K	ELECT	350V		10nF
C384	ECQE2104KFW	FILM	250V		100nF
C385	ECA2EM220B	ELECT	250V		22µF
C386	ECKW3D152JBR	CERAMIC	2KV	PAC	1.5nF
C395	ECQV1H104JL3	FILM	50V		0.1µF
C451	ECUV1H102JCX	S.M. CAP	50V		1nF
C453	ECUV1H152KBX	S.M. CAP	50V		1.5pF
C454	ECQV1H105JL3	FILM	50V		1µF
C455	ECA1HM100B	ELECT	50V		10µF
C456	ECA1HHG221B	ELECT	50V		220µF
C459	ECQB1224KFW	FILM	100V		220nF
C508	ECQB1H103KF3	FILM	50V		10nF
C509	SMG1VV470MT5	ELECT	35V		47µF
C511	ECQE2683KFW	FILM	100V		68nF
C551	ECKW3D471JBN	CERAMIC	2kV		470pF
C552	ECWH20102JVY	FILM	200V		1µF

Cct Ref	Parts Number	Description			
C557	ECKR2H471KB5	CERAMIC	500V		470pF
C558	ECA1HHG471B	ELECT	50V		470µF
C561	ECA1EHG102B	ELECT	25V		1000µF
C562	ECKR2H101KB5	CERAMIC	500V		100pF
C563	ECA2EHG220B	ELECT	250V		20µF
C564	ECEA2AU2R2B	ELECT	100V		2.2µF
C565	ECQP1H273JZW	FILM	100V		27nF
C566	ECKR2H471KB5	CERAMIC	500V		470pF
C567	ECA1EHG102B	ELECT	25V		1000µF
C568	ECKR2H471KB5	CERAMIC	500V		470pF
C569	ECKR2H102KB5	CERAMIC	500V		1nF
C572	ECJ2YB1H104K	ELECT	350V		100nF
C581	ECWF4564JBB	FILM	400V		560nF
C582	ECWF4474JBB	FILM	400V		470nF
C583	ECWH20562JVB	FILM	200V		5.6nF
C584	ECWH20562JVB	FILM	200V		5.6nF
C586	ECQF4153JZH	FILM	400V		1.5nF
C587	ECQF4223JZH	FILM	400V		22nF
C608	ECJ2VB1H103K	ELECT	350V		10nF
C609	ECUV1H270JCX	S.M. CAP	50V		27pF
C621	ECUV1H271JCX	S.M. CAP	50V		270pF
C622	ECUV1H271JCX	S.M. CAP	50V		270pF
C623	ECUV1H121JCX	S.M. CAP	50V		120pF
C624	ECUV1H121JCX	S.M. CAP	50V		120pF
C625	ECQV1H224JL3	FILM	50V		220nF
C626	ECA1CM100B	ELECT	16V		10µF
C627	ECJ2VB1C104K	ELECT	350V		100nF
C628	ECQV1H224JL3	FILM	50V		220nF
C629	ECUV1H271JCX	S.M. CAP	50V		270pF
C630	ECUV1H271JCX	S.M. CAP	50V		270pF
C631	ECUV1H121JCX	S.M. CAP	50V		120pF
C632	ECUV1H121JCX	S.M. CAP	50V		120pF
C701	ECA1HHG101B	ELECT	50V		100µF
C702	ECJ2VB1H103K	ELECT	350V		10nF
C703	ECA1HHG100E	ELECT	50V		10µF
C704	ECJ2VB1H223K	ELECT	350V		22nF
C705	ECQB1H102KF3	ELECT	50V		1nF
C709	ECQV1H105JL3	FILM	50V		1µF
C806	ECKWNA101MB	CERAMIC	400V		100µF ⚠
C807	ECKW2H472PU7	CERAMIC	500V		4.7nF
C808	ECKW2H472PU7	CERAMIC	500V		4.7nF
C809	ECKW2H472PU7	CERAMIC	500V		4.7nF
C810	ECKW2H472PU7	CERAMIC	500V		4.7nF
C811	ECOS2GA221CB	ELECT	400V		220µF
C814	ECKW3D102KBP	CERAMIC	2kV		1nF
C815	ECKR1H471KB5	CERAMIC	50V		470pF
C816	ECA1EM101B	ELECT	25V		100µF
C818	ECKCWS332MEB	CERAMIC	1.2kV		3.3nF ⚠
C819	ECQB1H102KF3	ELECT	50V		1nF
C820	ECJ2VF1H104Z	ELECT	350V		100nF
C839	ECA1CM100B	ELECT	16V		10µF
C840	ECJ2YB1H104K	ELECT	350V		100nF
C841	ECA1AM222B	ELECT	10V		2200µF
C842	ECA1CM100B	ELECT	16V		10µF
C845	ECQE6104KFW	FILM	600V		100nF
C846	222233821154	FILM	250V		150nF ⚠
C850	ECKW3D471KBP	CERAMIC	2KV		470pF
C851	ECA2CHG221E	ELECT	160V		220µF
C852	EEUEB2D101E	ELECT	200V		100µF
C853	ECKR2H471KB5	CERAMIC	500V		470pF
C854	ECA1EM102B	ELECT	25V		1000µF
C855	ECKR2H471KB5	CERAMIC	500V		470pF
C856	ECA1AHG332B	ELECT	10V		3.3nF
C857	ECKR2H471KB5	CERAMIC	500V		470pF
C858	ECEA1HGE102E	ELECT	50V		1000µF
C859	ECJ2VF1H104Z	ELECT	350V		100nF

Cct Ref	Parts Number	Description			
C860	SMG1CV101MT5	ELECT	16V		100µF
C862	ECJ2VF1H104Z	ELECT	350V		100nF
C863	SMG1CV101MT5	ELECT	16V		100µF
C864	ECJ2VF1H104Z	ELECT	350V		100nF
C865	ECA1CM100B	ELECT	16V		10µF
C866	ECJ2VF1H104Z	ELECT	350V		100nF
C867	ECA1CM100B	ELECT	16V		10µF
C868	ECA1CM100B	ELECT	16V		10µF
C869	ECA1EM101B	ELECT	25V		100µF
C870	ECA1EM471B	ELECT	25V		470µF
C871	ECA1CM332E	ELECT	16V		3300µF
C872	ECA1CM471B	ELECT	16V		470µF
C873	ECA1CM100B	ELECT	16V		10µF
C875	ECA2CM4R7B	ELECT	160V		10µF
C876	ECA1HHG101B	ELECT	50V		100µF
C902	ECA1VM101B	ELECT	35V		100µF
C904	ECJ2VF1H103Z	ELECT	350V		10nF
C906	ECUV1H563KBX	S.M. CAP	50V		56nF
C907	ECUV1H331JCX	S.M. CAP	50V		330pF
C909	ECKR2H472MD5	CERAMIC	500V		4.7nF
C910	ECKR2H472MD5	CERAMIC	500V		4.7nF
C912	ECA2EM220B	ELECT	250V		22µF
C913	SMG1CV101MT5	ELECT	16V		100µF
C914	SMG1CV101MT5	ELECT	16V		100µF
C916	ECA2EM220B	ELECT	250V		22µF
C917	ECA1HM100B	ELECT	50V		10µF
C918	ECJ2VF1H103Z	ELECT	350V		10nF
C919	ECCR2H270JC5	CERAMIC	500V		27pF
C1061	ECJ2VB1H103K	ELECT	350V		10nF
C1062	SMG1CV101MT5	ELECT	16V		100µF
C1063	ECUV1H331JCX	S.M. CAP	50V		330pF
C1101	ECJ2VF1H104Z	ELECT	350V		100nF
C1102	ECA0JM101B	ELECT	400V		100µF
C1103	ECUV1H220JCX	S.M. CAP	50V		22pF
C1104	ECUV1H220JCX	S.M. CAP	50V		22pF
C1105	ECUV1H101JCX	S.M. CAP	50V		100pF
C1106	ECKR2H681KB5	CERAMIC	500V		680pF
C1108	ECJ2VB1H333K	ELECT	350V		33nF
C1111	ECA1CM100B	ELECT	16V		10µF
C1112	ECJ2VB1H103K	ELECT	350V		10nF
C1115	ECJ3VB1C474K	ELECT	3.5KV		470nF
C1116	ECJ2VB1H472K	ELECT	350V		4.7nF
C1117	ECJ2VF1H104Z	ELECT	350V		100nF
C1118	ECJ2VB1H103K	ELECT	350V		10nF
C1119	ECUV1H221JCX	S.M. CAP	50V		220pF
C1120	ECJ2VF1H104Z	ELECT	350V		100nF
C1121	ECUV1H221JCX	S.M. CAP	50V		220pF
C1123	ECUV1H471JCX	S.M. CAP	50V		470pF
C1124	ECUV1H221JCX	S.M. CAP	50V		220pF
C1125	ECUV1H221JCX	S.M. CAP	50V		220pF
C1126	ECUV1H221JCX	S.M. CAP	50V		220pF
C1127	ECUV1H561JCX	S.M. CAP	50V		560pF
C1129	ECUV1H270JCX	S.M. CAP	50V		27pF
C1130	ECA1CM221B	ELECT	16V		220µF
C1502	ECUV1H271JCX	S.M. CAP	50V		270pF
C1504	ECUV1H271JCX	S.M. CAP	50V		270pF
C1506	ECUV1H271JCX	S.M. CAP	50V		270pF
C1508	ECUV1H271JCX	S.M. CAP	50V		270pF
C1509	ECQV1H684JL3	FILM	50V		680nF
C1510	ECQV1H684JL3	FILM	50V		680nF
C1511	ECQV1H684JL3	FILM	50V		680nF
C1512	ECQV1H684JL3	FILM	50V		680nF
C1513	ECUV1H102JCX	S.M. CAP	50V		1nF
C1514	ECEA1CKA100B	ELECT	16V		10µF
C1515	ECJ2VB1H103K	ELECT	350V		10nF
C1516	ECEA1CN101UB	ECLECT	16V		100µF

Cct Ref	Parts Number	Description			
R929	ERDS1FVJ471T	CARBON	0.5W	5%	470 Ω
R931	ERDS1FYJ390T	CARBON	0.5W	5%	39 Ω
R935	ERQ14AJW3R9E	FUSIBLE	0.25W	5%	3R9 Ω
R936	ERQ1CJP102S	FUSIBLE	1W	5%	1K Ω
R937	ERQ14AJW100E	FUSIBLE	0.25W	5%	10 Ω
R938	ERDS2TJ122T	CARBON	0.25W	5%	1K2 Ω
R941	ERDS2TJ5R6T	CARBON	0.25W	5%	5R6 Ω
R1051	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R1062	ERJ6GEYJ271V	S.M.CARB	0.1W	5%	270 Ω
R1063	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R1101	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1102	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R1103	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R1104	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R1105	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1106	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω
R1107	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω
R1108	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R1109	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R1110	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R1111	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R1112	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω
R1113	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1114	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1115	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R1116	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1117	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1118	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R1119	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R1120	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1121	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1123	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1124	ERJ6GEYJ1R0V	S.M.CARB	0.1W	5%	1 Ω
R1125	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R1126	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1127	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1128	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω
R1129	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω
R1130	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R1131	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R1132	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1133	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω
R1136	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω
R1137	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R1138	ERJ6GEYJ105V	S.M.CARB	0.1W	5%	1M Ω
R1139	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R1140	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R1141	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R1142	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R1145	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1146	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1147	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1148	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1149	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R1151	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1152	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1154	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1155	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1156	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1157	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R1158	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1159	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R1160	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R1161	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R1163	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R1164	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω

Cct Ref	Parts Number	Description			
R1165	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R1166	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R1167	ERJ6GEYJ100V	S.M.CARB	0.1W	5%	10 Ω
R1168	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω
R1169	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R1170	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω
R1171	ERJ6GEYJ224V	S.M.CARB	0.1W	5%	220K Ω
R1172	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R1173	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω
R1174	ERJ6GEYJ221V	S.M.CARB	0.1W	5%	220 Ω
R1175	ERJ6GEYJ225V	S.M.CARB	0.1W	5%	2M2 Ω
R1178	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R1251	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω
R1252	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω
R1253	ERJ6GEYJ332V	S.M.CARB	0.1W	5%	3K3 Ω
R1254	ERJ6GEYJ512V	S.M.CARB	0.1W	5%	5K1 Ω
R1255	ERJ6GEYJ912V	S.M.CARB	0.1W	5%	9K1 Ω
R1501	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1502	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1504	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1505	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1506	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1507	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1508	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1509	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1510	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1511	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1512	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R1513	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R1514	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R1515	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω
R1517	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R1521	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1522	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R1523	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R1524	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R1525	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1526	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R1527	ERJ6GEYJ122V	S.M.CARB	0.1W	5%	1K2 Ω
R1528	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R1529	ERJ6GEYJ122V	S.M.CARB	0.1W	5%	1K2 Ω
R1530	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1531	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R1532	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R1533	ERJ6GEYJ122V	S.M.CARB	0.1W	5%	1K2 Ω
R1534	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R1535	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R1536	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R1537	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω
R1538	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R1539	ERJ6GEYJ271V	S.M.CARB	0.1W	5%	270 Ω
R1540	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω
R1541	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R1542	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R1543	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1544	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1545	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1546	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R1547	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1548	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1549	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1550	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1551	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1552	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1553	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1554	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω

Cct Ref	Parts Number	Description			
R1555	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1556	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1557	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1558	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1559	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1560	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1561	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1562	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1563	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1564	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1565	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1566	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1567	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1568	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1569	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1570	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1571	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1572	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1573	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1574	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω
R1575	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R1577	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R1578	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R1579	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1580	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R1584	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R1585	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R1586	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R1587	ERJ6GEYJ152V	S.M.CARB	0.1W	5%	1K5 Ω
R1588	ERJ6GEYJ511V	S.M.CARB	0.1W	5%	510 Ω
R1589	ERJ6GEYJ152V	S.M.CARB	0.1W	5%	1K5 Ω
R1900	ERQ12HJ150P	FUSIBLE	0.5W	5%	15 Ω
R1901	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω
R1902	ERJ6GEYJ183V	S.M.CARB	0.1W	5%	18K Ω
R1903	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R1904	ERDS1TJ2R2T	CARBON	0.5W	5%	2R2 Ω
R1905	ERJ6GEYJ753V	S.M.CARB	0.1W	5%	75K Ω
R1906	ERJ6GEYJ753V	S.M.CARB	0.1W	5%	75K Ω
R1907	ERJ6GEYJ753V	S.M.CARB	0.1W	5%	75K Ω
R1908	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R1909	ERDS1TJ2R2T	CARBON	0.5W	5%	2R2 Ω
R1910	ERDS1TJ8R2T	CARBON	0.5W	5%	8R2 Ω
R1911	ERDS1TJ8R2T	CARBON	0.5W	5%	8R2 Ω
R1912	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω ⚠
R1913	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R1914	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω
R2101	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2102	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R2103	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R2109	ERJ6GEYJ183V	S.M.CARB	0.1W	5%	18K Ω
R2110	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω
R2111	ERJ6GEYJ221V	S.M.CARB	0.1W	5%	220 Ω
R2112	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R2113	ERJ6GEYJ562V	S.M.CARB	0.1W	5%	5K6 Ω
R2114	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R2115	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω
R2116	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R2117	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R2118	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω
R2119	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R2120	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω
R2200	ERJ6GEYJ183V	S.M.CARB	0.1W	5%	18K Ω
R2201	ERJ6GEYJ393V	S.M.CARB	0.1W	5%	39K Ω
R2202	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2203	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2204	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω

Cct Ref	Parts Number	Description			
R2206	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω
R2207	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω
R2208	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2209	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2210	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω
R2211	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω
R2212	ERJ6GEYJ224V	S.M.CARB	0.1W	5%	220K Ω
R2213	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2214	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2215	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R2216	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω
R2217	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R2218	ERJ6GEYJ221V	S.M.CARB	0.1W	5%	220 Ω
R2219	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω
R2220	ERJ6GEYJ183V	S.M.CARB	0.1W	5%	18K Ω
R2221	ERJ6GEYJ393V	S.M.CARB	0.1W	5%	39K Ω
R2222	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2223	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2224	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω
R2226	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω
R2227	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω
R2228	ERJ6GEYJ154V	S.M.CARB	0.1W	5%	150K Ω
R2229	ERJ6GEYJ221V	S.M.CARB	0.1W	5%	220 Ω
R2230	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω
R2231	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω
R2232	ERJ6GEYJ224V	S.M.CARB	0.1W	5%	220K Ω
R2233	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2234	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2235	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R2236	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R2237	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2238	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2239	ERJ6GEYJ154V	S.M.CARB	0.1W	5%	150K Ω
R2240	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω
R2241	ERJ6GEYJ220V	S.M.CARB	0.1W	5%	22 Ω
R2302	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω
R2303	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R2304	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R2305	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R2306	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R2308	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω
R2309	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R2310	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R2311	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R2312	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R3001	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3002	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R3003	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3004	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω
R3005	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3006	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R3007	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3008	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω
R3010	ERDS2TJ750T	CARBON	0.25W	5%	75 Ω
R3013	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3014	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R3015	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3016	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω
R3017	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3018	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R3019	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3020	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω
R3021	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3046	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3047	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3048	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω

Cct Ref	Parts Number	Description		
C1517	ECJ2YB1H473K	ELECT	350V	47nF
C1518	ECEA1CKA100B	ELECT	16V	10µF
C1519	ECUV1H050CCX	S.M. CAP	50V	50pF
C1520	ECUV1H050CCX	S.M. CAP	50V	50pF
C1521	ECJ2VB1H103K	ELECT	350V	10nF
C1522	ECEA1CKA100B	ELECT	16V	10µF
C1523	ECJ2VB1H103K	ELECT	350V	10nF
C1524	ECEA1CKA100B	ELECT	16V	10µF
C1525	ECJ2VB1H103K	ELECT	350V	10nF
C1526	ECEA1CKA100B	ELECT	16V	10µF
C1527	ECJ2VB1C104K	ELECT	350V	100nF
C1528	ECEA1CKA100B	ELECT	16V	10µF
C1529	ECJ2VB1C104K	ELECT	350V	100nF
C1530	ECEA1CKA100B	ELECT	16V	10µF
C1531	ECJ2VB1C104K	ELECT	350V	100nF
C1532	ECEA1CKA100B	ELECT	16V	10µF
C1540	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C1541	ECJ2VB1H333K	ELECT	350V	33nF
C1542	ECJ2VB1H333K	ELECT	350V	33nF
C1543	ECJ2VB1C224K	ELECT	350V	220nF
C1544	ECJ2VB1H333K	ELECT	350V	33nF
C1545	ECEA1CKA100B	ELECT	16V	10µF
C1546	ECEA1CKA100B	ELECT	16V	10µF
C1547	ECJ2VB1H103K	ELECT	350V	10nF
C1548	ECJ2VB1H103K	ELECT	350V	10nF
C1549	ECJ2VB1H103K	ELECT	350V	10nF
C1550	ECJ2VB1H103K	ELECT	350V	10nF
C1551	ECJ2VB1H103K	ELECT	350V	10nF
C1552	ECJ2VB1H103K	ELECT	350V	10nF
C1553	ECEA1CKA100B	ELECT	16V	10µF
C1554	ECJ2VB1H103K	ELECT	350V	10nF
C1555	ECJ2VB1C104K	ELECT	350V	100nF
C1556	ECUV1H270JCX	S.M. CAP	50V	27pF
C1557	ECUV1H270JCX	S.M. CAP	50V	27pF
C1558	ECJ2VB1H103K	ELECT	350V	10nF
C1559	ECEA1CKA100B	ELECT	16V	10µF
C1560	ECEA1CKA100B	ELECT	16V	10µF
C1561	ECJ2VB1C104K	ELECT	350V	100nF
C1562	ECJ2VB1C104K	ELECT	350V	100nF
C1563	ECJ2VB1C104K	ELECT	350V	100nF
C1564	ECJ2VB1C104K	ELECT	350V	100nF
C1566	ECUV1H270JCX	S.M. CAP	50V	27pF
C1567	ECEA1CKA100B	ELECT	16V	10µF
C1568	ECJ2VB1H103K	ELECT	350V	10nF
C1569	ECEA1CKA100B	ELECT	16V	10µF
C1570	ECJ2VB1H103K	ELECT	350V	10nF
C1571	ECJ2VB1H103K	ELECT	350V	10nF
C1572	ECEA1CKA100B	ELECT	16V	10µF
C1573	ECJ2VB1H103K	ELECT	350V	10nF
C1574	ECEA1CKA100B	ELECT	16V	10µF
C1575	ECEA1CKA100B	ELECT	16V	10µF
C1576	ECJ2VB1H103K	ELECT	350V	10nF
C1577	ECUV1H270JCX	S.M. CAP	50V	27pF
C1578	ECJ2VB1H103K	ELECT	350V	10nF
C1579	ECJ2VB1H103K	ELECT	350V	10nF
C1580	ECJ2VB1H103K	ELECT	350V	10nF
C1581	ECJ2VB1C224K	ELECT	350V	220nF
C1582	ECJ2VB1C224K	ELECT	350V	220nF
C1583	ECJ2VB1C224K	ELECT	350V	220nF
C1584	ECJ2VB1C104K	ELECT	350V	100nF
C1585	ECEA1CKA100B	ELECT	16V	10µF
C1586	ECJ2VB1H103K	ELECT	350V	10nF
C1587	ECEA1CKA100B	ELECT	16V	10µF
C1588	ECEA1CKA100B	ELECT	16V	10µF
C1589	ECJ2VB1H103K	ELECT	350V	10nF
C1590	ECJ2VB1H103K	ELECT	350V	10nF

Cct Ref	Parts Number	Description		
C1591	ECEA1CKA100B	ELECT	16V	10µF
C1592	ECUV1H271JCX	S.M. CAP	50V	270pF
C1594	ECUV1H271JCX	S.M. CAP	50V	270pF
C1596	ECUV1H271JCX	S.M. CAP	50V	270pF
C1603	ECUV1H271JCX	S.M. CAP	50V	270pF
C1900	ECQB1H153JF3	FILM	50V	15nF
C1901	ECJ2VB1H103K	ELECT	350V	10nF
C1903	ECA1EM470B	ELECT	25V	47µF
C1904	ECQB1H104JF3	FILM	50V	100nF
C1905	ECQB1H104JF3	FILM	50V	100nF
C1906	ECQU2A474MLA	FILM	250V	470nF ⚠
C1907	222233821224	FILM	250V	220nF ⚠
C1909	ECJ2VB1H103K	ELECT	350V	10nF
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF
C2111	ECA1CM100B	ELECT	16V	10µF
C2112	ECA1CM100B	ELECT	16V	10µF
C2113	ECA1HM3R3B	ELECT	50V	3R3µF
C2114	ECJ2VF1H104Z	ELECT	350V	100nF
C2115	ECUV1H221JCX	S.M. CAP	50V	220pF
C2116	ECUV1H221JCX	S.M. CAP	50V	220pF
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF
C2121	ECA1CM100B	ELECT	16V	10µF
C2122	ECJ2VF1H104Z	ELECT	350V	100nF
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF
C2124	ECUV1H560JCX	S.M. CAP	50V	56pF
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF
C2126	ECUV1H560JCX	S.M. CAP	50V	56pF
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF
C2129	ECA1CM102B	ELECT	16V	1000µF
C2130	ECA1CM331B	ELECT	16V	330µF
C2134	ECJ2VF1H103Z	ELECT	350V	10nF
C2135	SMG1CV101MT5	ELECT	16V	100µF
C2136	ECJ2VF1H104Z	ELECT	350V	100nF
C2137	ECA1CM100B	ELECT	16V	10µF
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF
C2140	SMG1CV101MT5	ELECT	16V	100µF
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF
C2200	ECUV1H562KBX	S.M. CAP	50V	5.6nF
C2201	ECA1HM100B	ELECT	50V	10µF
C2202	ECA0JM101B	ELECT	400V	100µF
C2204	ECA1CM470B	ELECT	16V	47µF
C2205	ECUV1H562KBX	S.M. CAP	50V	5.6nF
C2206	ECA1HM2R2B	ELECT	50V	2.2µF
C2207	ECJ2VB1H103K	ELECT	350V	10nF
C2208	ECJ2YB1H683K	ELECT	50V	68nF
C2209	ECUV1H681JCX	S.M. CAP	50V	680pF
C2211	ECJ2VB1C104K	ELECT	350V	100nF
C2212	ECJ2VB1C104K	ELECT	350V	100nF
C2213	ECJ2VB1H223K	ELECT	350V	22nF
C2215	ECJ2VB1H103K	ELECT	350V	10nF
C2216	ECUV1H121JCX	S.M. CAP	50V	120pF
C2217	ECJ2VB1H223K	ELECT	350V	22nF

Cct Ref	Parts Number	Description		
C2220	ECUV1H562KBX	S.M. CAP	50V	5.6pF
C2221	ECA1HM100B	ELECT	50V	10µF
C2222	ECA0JM101B	ELECT	400V	100µF
C2225	ECUV1H562KBX	S.M. CAP	50V	5.6nF
C2226	ECA1HM2R2B	ELECT	50V	2.2µF
C2227	ECJ2VB1H103K	ELECT	350V	10nF
C2228	ECJ2YB1H683K	ELECT	50V	68nF
C2229	ECUV1H681JCX	S.M. CAP	50V	680pF
C2231	ECJ2VB1C104K	ELECT	350V	100nF
C2232	ECJ2VB1C104K	ELECT	350V	100nF
C2235	ECJ2VB1H103K	ELECT	350V	10nF
C2236	ECUV1H121JCX	S.M. CAP	50V	120pF
C2240	ECA1CM471B	ELECT	16V	470µF
C2301	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2302	ECA1CM470B	ELECT	16V	47µF
C2303	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2304	ECA1CM470B	ELECT	16V	47µF
C3001	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3002	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3003	ECA1CM470B	ELECT	16V	47µF
C3005	ECUV1H561JCX	S.M. CAP	50V	560pF
C3006	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3007	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3008	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3009	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3010	ECA1CM470B	ELECT	16V	47µF
C3012	ECUV1H561JCX	S.M. CAP	50V	560pF
C3013	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3017	ECA1CM470B	ELECT	16V	47µF
C3019	ECUV1H561JCX	S.M. CAP	50V	560pF
C3020	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3023	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3024	ECA1CM470B	ELECT	16V	47µF
C3026	ECUV1H561JCX	S.M. CAP	50V	560pF
C3027	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3030	ECUV1H271JCX	S.M. CAP	50V	270pF
C3031	ECUV1H271JCX	S.M. CAP	50V	270pF
C3032	ECUV1H271JCX	S.M. CAP	50V	270pF
C3111	ECUV1H222KBX	S.M. CAP	50V	2.2nF
C3201	ECJ2VB1H103K	ELECT	350V	10nF
C3202	ECJ2VB1H103K	ELECT	350V	10nF
C3203	ECUV1H561JCX	S.M. CAP	50V	560pF
C3204	ECUV1H561JCX	S.M. CAP	50V	560pF
C3205	ECA1HM470B	ELECT	50V	47µF
C3206	ECUV1H561JCX	S.M. CAP	50V	560pF
C3207	ECUV1H561JCX	S.M. CAP	50V	560pF
C3208	ECA1HM470B	ELECT	50V	47µF
C3209	ECJ2VB1H103K	ELECT	350V	10nF
C3210	ECJ2VB1C104K	ELECT	350V	100nF
C3211	ECJ2VB1H103K	ELECT	350V	10nF
C3212	ECJ2VB1H103K	ELECT	350V	10nF
C3213	ECJ2VB1H103K	ELECT	350V	10nF
C3214	ECJ2VB1C104K	ELECT	350V	100nF
C3215	ECJ2VB1H103K	ELECT	350V	10nF
C3216	ECA1CM330B	ELECT	16V	33µF
C3217	ECJ2VB1C104K	ELECT	350V	100nF
C3221	ECA1CM221B	ELECT	16V	220µF
C3351	ECA1CM221B	ELECT	16V	220µF
TERMINALS AND LINKS				
JK381	TJS1A5230B	CRT SOCKET		⚠

Cct Ref	Parts Number	Description	
JK2301	JPJ841101320	RCA SOCKET	
JK3001	350808500	SCART SOCKET	
JK3201	TJB8E026	AV TERMINAL	
SWITCHES			
S802	ESB92S11B	SWITCH	⚠
S1251	EVQ21405R	SWITCH	
S1252	EVQ21405R	SWITCH	
S1253	EVQ21405R	SWITCH	
S1254	EVQ21405R	SWITCH	
S1255	EVQ21405R	SWITCH	
RELAYS			
RL801	TSE1885-1	RELAY	⚠

DIFFERENCES FOR MODEL TX--28PL10D

EXPLODED VIEW

25	TNP8EE013DF	E P.C.B.	⚠
26	TBM8E2220-1	MODEL LABEL	

INSTRUCTION BOOKS

.	TQB8E3445A	GERMAN
.	TQB8E3445C	ITALIAN
.	TQB8E3445D	FRENCH

DIFFERENCES FOR MODEL TX--28PL10F

EXPLODED VIEW

25	TNP8EE013DG	E P.C.B.	⚠
26	TBM8E2221	MODEL LABEL	

INSTRUCTION BOOKS

.	TQB8E3441A	GERMAN
.	TQB8E3441B	DUTCH
.	TQB8E3441D	FRENCH
.	TQB8E3441E-1	SPANISH
.	TQB8E3441F	SWEDISH
.	TQB8E3441G	NORWEGIAN
.	TQB8E3441H	FINNISH
.	TQB8E3441K	DANISH

NOTES

SCHEMATIC DIAGRAMS

(EURO-4H CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

NOTES

1. RESISTOR
   All resistors are carbon ¼W resistor, unless marked otherwise.
   Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
2. CAPACITORS
   All capacitors are ceramic 50V unless marked otherwise.
   Unit of capacitance is µF unless otherwise stated.
3. COIL
   Unit of inductance is µH, unless otherwise stated.
4. Components marked "L" on the schematic diagram shows leadless parts.
5. TEST POINT
   Test Point Position
6. EARTH SYMBOL
   Chassis Earth (Cold) Line Earth (Hot)
7. VOLTAGE MEASUREMENT
   Voltage is measured by a d.c. voltmeter.
   Measurement conditions are as follows:

Power source	a.c. 220V-240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position

8. Indicates the Video signal path
   Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

1. The Power Supply Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits except the Power Circuit, are COLD. Take the following precautions :-

a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simutaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
d. Make sure to disconnect the power plug before removing the chassis.

ZEICHENERKLÄRUNG FÜR

(EURO-4H CHASSIS)

WICHTIGER SICHERHEITSHINWEIS

Teile, die mit einen Hinweis ⚠ gekennzeichnet sind, sind wichtig für die Sicherheit, Sollte ein Auswechsein erforderlich sein, sind unbedingt Originalteile einzusetzen.

ANMERKUNG

1. WIDERSTÄNDE
   Alle ¼W Widerstände sind Kohlewiderstände, Abweichungen sind folgt gekennzeichnet.
   Die Maßeinheit ist OHM (Ω) (k=1,000, M=1,000,000)
2. KONDENSATOREN
   Alle Kondensatoren sind Keramikausführungen. Spannungsfestigkeit 50V. Abweichungen sind wie folgt gekennzeichnet. Die Maßeinheit ist µF, wenne keine anderen Bezeichnungen gennant sind.
3. SPULEN
   Die Maßeinheit ist µH, Abweichungen sind gekennzeichnet.
4. Mit "L" gekennzeichnete Teile sind ohne Anschlußdrähte.
5. TESTPUNKTE
   Kennzeichnung der Testpunktposition
6. MASSE SYMBOL
   Erdung am Chassis Erdung an Masse-Leitung
7. SPANNUNGSMESSUNG
   Spannungsmessungen sind mit einem d.c.-Voltmeter durchzuführen. Die Meßbedingungen sind folgende:

Netzspannung	a.c. 220V-240V, 50Hz
Wiedregabe Signal	Farbbalken-Testbild
Wiedergabesignal Farbbalken-Testbild (HF)	

8. Videosignalweg
   Audiosignalweg

Änderungen im Laufe der Fertigung sind möglich.

BEMERKUNGEN

1. Das Schaltnetzteil enthält Bereiche, die direkt mit dem Netz verbunden sind. Diese Bereiche sind im Schaltplan mit HOT gekennzeichnet. Alle anderen Schaltungen sind mit COLD gekennzeichnet und haben keine direkte Verbindung mit den Netz :-

a. Weder die Leitungen im heißen noch Leitungen im
b. heißen und im kalten Bereich gleichzeitig berühren. Es besteht die Gefahr eines elektrischen Schlages.
c. Keinesfalls die Leitungen im heißen Bereich mit denen im kalten Bereich verbinden oder kurzschliessen. Dies kann zur Zerstörung von Bauteilen oder Sicherungen führen. Außerdem ist die elektrische Betriebssicherheit des Gerätes nicht mehr gegeben.
   Keine Messinstrumente gleichzeitig an Leitungen im heissen und kalten Bereich anschliessen. Sicherungen könnten zerstört werden. Die Erde des Messinstrumentes immer mit der des zu prüfenden Schaltkreises verbinden.
d. Vor Ausbau des Chassis, Stecker aus der Netzsteckdose ziehen.

TNP8EY018
Y-BOARD ⚠

IC351 TDA6111Q/N4 R-OUT
IC361 TDA6111Q/N4 V-OUT
IC371 TDA6111Q/N4 B-OUT
TUC8E6691 HEAT SINK
IC381 TL431ACLPM

Y2 E8 12V GND G B R SENSE SVM
Y5 VM COIL
Y3 E3 150V 200V HEATER GND
Y1 CRT GND
Y8
Y4
CRT KR KB KG G1 G2 G3
SCREEN FOCUS EHT

Q906 BC847B
Q907 BC857B
Q905 BC847B
Q908 2SA1535ARLB
Q909 2SC3944ARLB
Q3352 BC857B
Q351 2SA1767QTA
Q361 2SA1767QTA
Q371 2SA1767QTA

D902 1SS133T-77
D901 1SS133T-77
D903 1SS133T-77
D907 1SS133T-77
D3351 1SS133T-77
D3352 1SS133T-77
D376 1SS133T-77
D377 1SS133T-77
D3353 1SS133T-77
D378 1SS133T-77
D3354 1SS133T-77
D910 R2KNLFA1
D352 ERA15-04
D361 ERA15-04
D362 ERA15-04
D371 ERA15-04
D387 MA2160LFS
JK381 TJS1A5230B

JSY5 JSY11 JSY10 JSY9 JSY6 JSY7 JSY8 JSY04
TP11 TP15 TP16 TP26 TP3 TP4 TP19 TP6 TP5 TP7
TPY1 TPY2 TPY3 TPKB TPKR TPKG

R936 1000 1W
R935 3.9
R924 39 1.2W
R928 5.6
R938 1.2k
R925 0
R926 0
R915 820
R937 10
R919 39
R920 39
R923 68k
R922 68k
R927 1.2k
R941 5.6
R931 39 1.2W
R913 18k
R914 3.3k
R916 220
R917 120
R918 0
R912 1.2W
R3354 1k
R3355 390
R3360 470 1/2W
R383 0
R350 150 1/2W
R352 2k
R3356 680
R394 820
R355 1W 68k
R356 180
R362 2k
R3357 680
R396 820
R365 1W 68k
R366 180
R372 2k
R3358 680
R398 820
R375 1W 68k
R376 180
R3361 113k 1/2W 1%
R357 8.2k
R358 820 1/2W
R385 1.2 1/2W
R378 820 1/2W
R367 8.2k
R363 1k
R3362 1k
R3363 1k
R3364 1k
R377 8.2k
R332
R360 8250 1W
L353
L363 820 10
L373 15
L381 22u
L382 6.8
L912 EXCELSA35T
L911 EXCELSA35T
L910 EXCELSA35T

C916 250V 22
C902 35V 100
C913 16V 100
C904 0.01
C918 0.01
C917 50V 10
C906 56n
C909 500V 4700p
C910 500V 4700p
C907 330p
C919 500V 27p
C912 250V 22
C914 16V 100
C369 22p
C384 250V 0.1
C385 250V 22
C3351 16V 220
C381 100 16V
C382 16V 470
C383 0.01
C352 0.22
C353 0.1
C350 1n
C354 0.1 250V
C355 1n 500V
C358 2.2n
C362 0.22
C363 0.1
C364 0.1 250V
C365 1n 500V
C368 2.2n
C372 0.22
C373 0.1
C370 1n
C374 0.1 250V
C375 1n 500V
C378 2.2n
C386 1500p 2kV
C395 0.1 50V
R3332

TNP8EF007
F-BOARD ⚠

IC1502
CIP3250APSB1

IC1503
SDA9400

IC1504
DDP3310BPSE4

IC1501
VPC3215CB8TP

Q1501 BC847B
Q1502 BC857B
Q1503 BC847B
Q1504 BC847B
Q1505 BC857B
Q1506 BC847B
Q1507 BC857B
Q1508 BC857B
Q1509 BC847B
Q1510 BC857B
Q1511 BC857B
Q1512 BC847B
Q1513 BC847B
Q1514 BC847B
Q1515 BC847B

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X1502 4730007341

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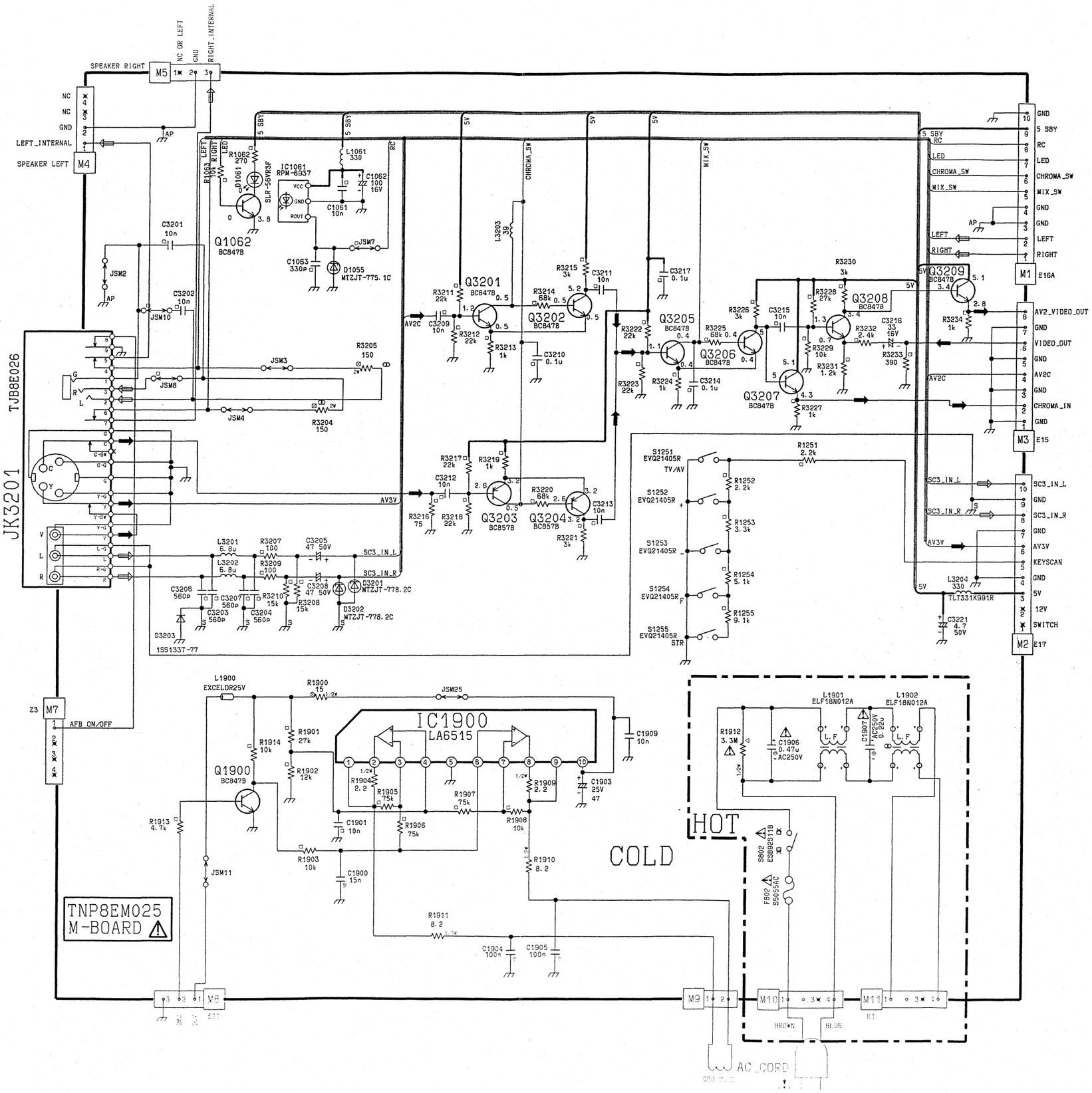
E70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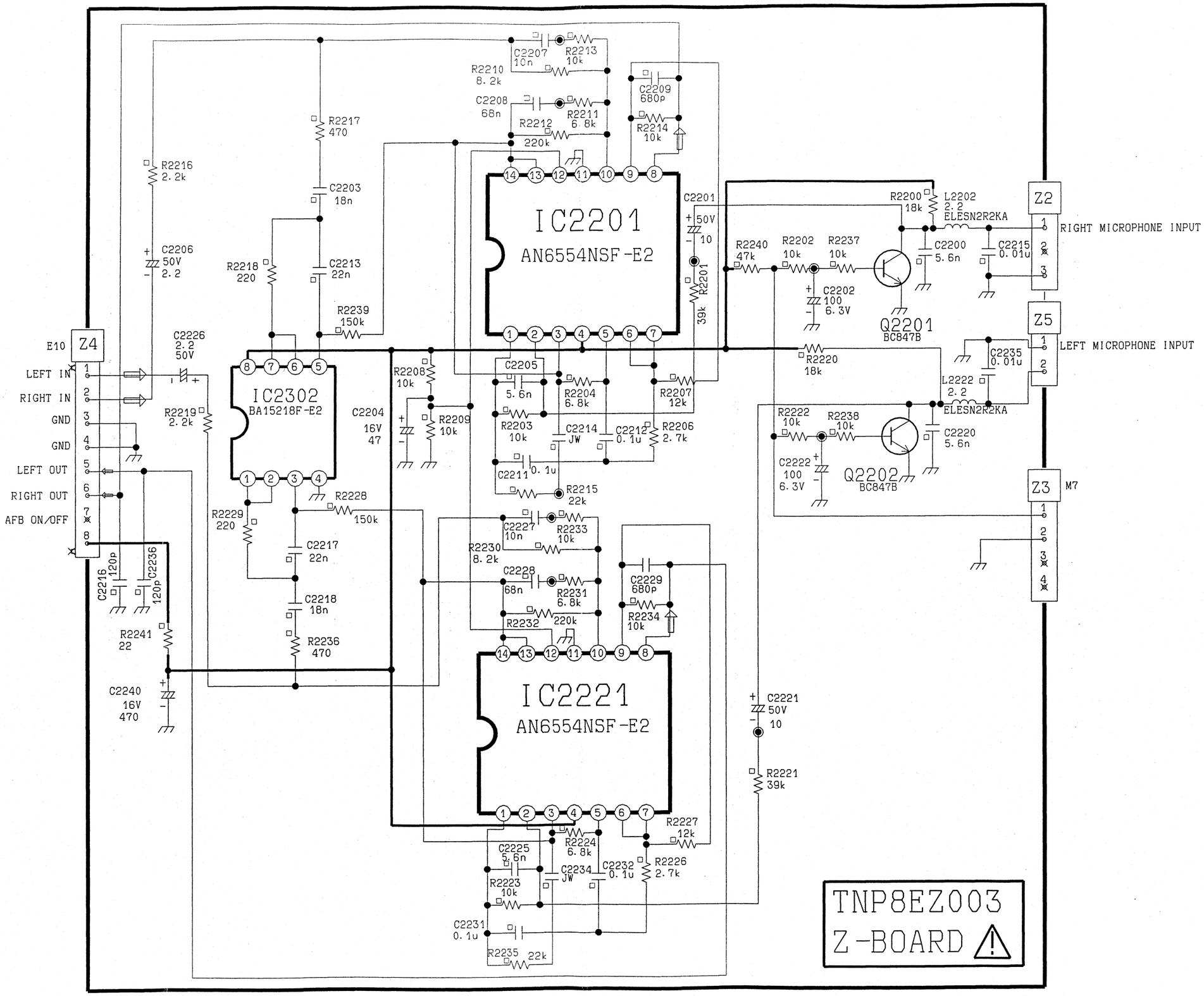
M5
NC OR LEFT
GND
RIGHT_INTERNAL
NC
NC
GND
LEFT_INTERNAL
SPEAKER LEFT
M4
AP
JK3201
TJB8E026
C3201 10n
C3202 10n
JSM2
JSM10
JSM3
JSM8
JSM4
R3205 150
R3204 150
L3201 6.8u
L3202 6.8u
R3207 100
R3209 100
C3205 47 50V
C3208 47 50V
SC3_IN_L
SC3_IN_R
D3201 MTZJT-778.2C
D3202 MTZJT-778.2C
C3206 560p
C3207 560p
C3203 560p
C3204 560p
R3210 15k
R3208 15k
D3203 1SS133T-77
5 SBY
5V
LED
RC
CHROMA_SW
MIX_SW
R1062 270
D1061 SLR-56VR3F
IC1061 RPM-6937
L1061 330
C1062 100 16V
C1061 10n
Q1062 BC847B
C1063 330p
D1055 MTZJT-775.1C
JSM7
L3203 39
Q3201 BC847B
R3211 22k
R3212 22k
R3213 1k
R3214 68k
Q3202 BC847B
C3209 10n
C3210 0.1u
C3211 10n
C3217 0.1u
AV2C
Q3205 BC847B
R3222 22k
R3223 22k
R3224 1k
R3225 68k
Q3206 BC847B
C3214 0.1u
R3226 3k
C3215 10n
Q3207 BC847B
R3227 1k
R3228 27k
R3229 10k
R3231 1.2k
Q3208 BC847B
R3230 3k
R3232 2.4k
C3216 33 16V
R3233 390
Q3209 BC847B
R3234 1k
AV3V
R3217 22k
R3219 1k
C3212 10n
R3216 75
R3218 22k
Q3203 BC857B
R3220 68k
Q3204 BC857B
C3213 10n
R3221 3k
S1251 EVQ21405R TV/AV
S1252 EVQ21405R
S1253 EVQ21405R
S1254 EVQ21405R
S1255 EVQ21405R STR
R1251 2.2k
R1252 2.2k
R1253 3.3k
R1254 5.1k
R1255 9.1k
L3204 330
TL1331K991R
C3221 4.7 50V
M1 E16A
M3 E15
M2 E17
AV2_VIDEO_OUT
VIDEO_OUT
CHROMA_IN
KEYSCAN
SWITCH
23 M7
AFB ON/OFF
L1900 EXCELDR25V
R1900 15
JSM25
IC1900 LA6515
R1901 27k
R1902 12k
R1914 10k
Q1900 BC847B
R1913 4.7k
R1903 10k
JSM11
R1904 2.2
R1905 75k
R1906 75k
R1907 75k
R1908 10k
R1909 2.2
C1901 10n
C1900 15n
C1903 25V 47
C1909 10n
R1910 8.2
R1911 8.2
C1904 100n
C1905 100n
TNP8EM025
M-BOARD
V8
M9
M10
M11
HOT
COLD
L1901 ELF18N012A
L1902 ELF18N012A
R1912 3.3M
C1906 0.47u AC250V
C1907 AC250V 0.22u
S802 ESB92511B
F802 S5055AC
BROWN
BLUE
AC_CORD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IC2302
BA15218F-E2
IC2221
AN6554NSF-E2
Q2201
BC847B
Q2202
BC847B
E10
Z4
Z2
Z5
Z3
M7
LEFT IN
RIGHT IN
GND
GND
LEFT OUT
RIGHT OUT
AFB ON/OFF
RIGHT MICROPHONE INPUT
LEFT MICROPHONE INPUT
ELESN2R2KA
ELESN2R2KA
R2210 8.2k
C2207 10n
R2213 10k
C2208 68n
R2211 6.8k
R2212 220k
C2209 680p
R2214 10k
R2216 2.2k
R2217 470
C2203 18n
C2206 50V 2.2
R2218 220
C2213 22n
R2239 150k
C2226 2.2 50V
R2219 2.2k
C2201 50V 10
R2201 39k
R2240 47k
R2202 10k
R2237 10k
C2202 100 6.3V
R2200 18k
L2202 2.2
C2200 5.6n
C2215 0.01u
R2220 18k
C2235 0.01u
L2222 2.2
R2222 10k
R2238 10k
C2220 5.6n
C2222 100 6.3V
R2208 10k
C2204 16V 47
R2209 10k
C2205 5.6n
R2204 6.8k
R2207 12k
R2203 10k
C2214 JW
C2212 0.1u
R2206 2.7k
C2211 0.1u
R2215 22k
R2228 150k
R2229 220
C2217 22n
C2218 18n
R2236 470
C2216 120p
C2236 120p
R2241 22
C2240 16V 470
C2227 10n
R2233 10k
R2230 8.2k
C2228 68n
R2231 6.8k
R2232 220k
C2229 680p
R2234 10k
C2221 50V 10
R2221 39k
R2227 12k
C2225 5.6n
R2224 6.8k
C2234 JW
C2232 0.1u
R2226 2.7k
R2223 10k
C2231 0.1u
R2235 22k
TNP8EZ003
Z-BOARD

TNP8EY018
Y-BOARD ⚠

IC351 TDA6111Q/N4 R-OUT
IC361 TDA6111Q/N4 V-OUT
IC371 TDA6111Q/N4 B-OUT
TUC8E6691 HEAT SINK
IC381 TL431ACLPM

Y2 E8 12V GND G B R SENSE SVM
Y5 VM COIL
Y3 E3 150V 200V HEATER GND
Y1 CRT GND
Y8
Y4
CRT KR KB KG G1 G2 G3
SCREEN FOCUS EHT

Q906 BC847B
Q907 BC857B
Q905 BC847B
Q908 2SA1535ARLB
Q909 2SC3944ARLB
Q3352 BC857B
Q351 2SA1767QTA
Q361 2SA1767QTA
Q371 2SA1767QTA

D902 1SS133T-77
D901 1SS133T-77
D903 1SS133T-77
D907 1SS133T-77
D3351 1SS133T-77
D3352 1SS133T-77
D376 1SS133T-77
D377 1SS133T-77
D3353 1SS133T-77
D378 1SS133T-77
D3354 1SS133T-77
D910 R2KNLFA1
D352 ERA15-04
D361 ERA15-04
D362 ERA15-04
D371 ERA15-04
D387 MA2160LFS
JK381 TJS1A5230B

JSY5 JSY11 JSY10 JSY9 JSY6 JSY7 JSY8 JSY04
TP11 TP15 TP16 TP26 TP3 TP4 TP19 TP6 TP5 TP7
TPY1 TPY2 TPY3 TPKB TPKR TPKG

R936 1000 1W
R935 3.9
R924 39 1.2W
R928 5.6
R938 1.2k
R925 0
R926 0
R915 820
R937 10
R919 39
R920 39
R923 68k
R922 68k
R927 1.2k
R941 5.6
R931 39 1.2W
R913 18k
R914 3.3k
R916 220
R917 120
R918 0
R912 1.2W
R3354 1k
R3355 390
R3360 470 1/2W
R383 0
R350 150 1/2W
R352 2k
R3356 680
R394 820
R355 1W 68k
R356 180
R362 2k
R3357 680
R396 820
R365 1W 68k
R366 180
R372 2k
R3358 680
R398 820
R375 1W 68k
R376 180
R3361 113k 1/2W 1%
R357 8.2k
R358 820 1/2W
R385 1.2 1/2W
R378 820 1/2W
R367 8.2k
R363 1k
R3362 1k
R3363 1k
R3364 1k
R377 8.2k
R332
R360 8250 1W
L353
L363 820 10
L373 15
L381 22u
L382 6.8
L912 EXCELSA35T
L911 EXCELSA35T
L910 EXCELSA35T

C916 250V 22
C902 35V 100
C913 16V 100
C904 0.01
C918 0.01
C917 50V 10
C906 56n
C909 500V 4700p
C910 500V 4700p
C907 330p
C919 500V 27p
C912 250V 22
C914 16V 100
C369 22p
C384 250V 0.1
C385 250V 22
C3351 16V 220
C381 100 16V
C382 16V 470
C383 0.01
C352 0.22
C353 0.1
C350 1n
C354 0.1 250V
C355 1n 500V
C358 2.2n
C362 0.22
C363 0.1
C364 0.1 250V
C365 1n 500V
C368 2.2n
C372 0.22
C373 0.1
C370 1n
C374 0.1 250V
C375 1n 500V
C378 2.2n
C386 1500p 2kV
C395 0.1 50V
R3332

TNP8EF007
F-BOARD ⚠

IC1502
CIP3250APSB1

IC1503
SDA9400

IC1504
DDP3310BPSE4

IC1501
VPC3215CB8TP

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Q1503 BC847B
Q1504 BC847B
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Q1506 BC847B
Q1507 BC857B
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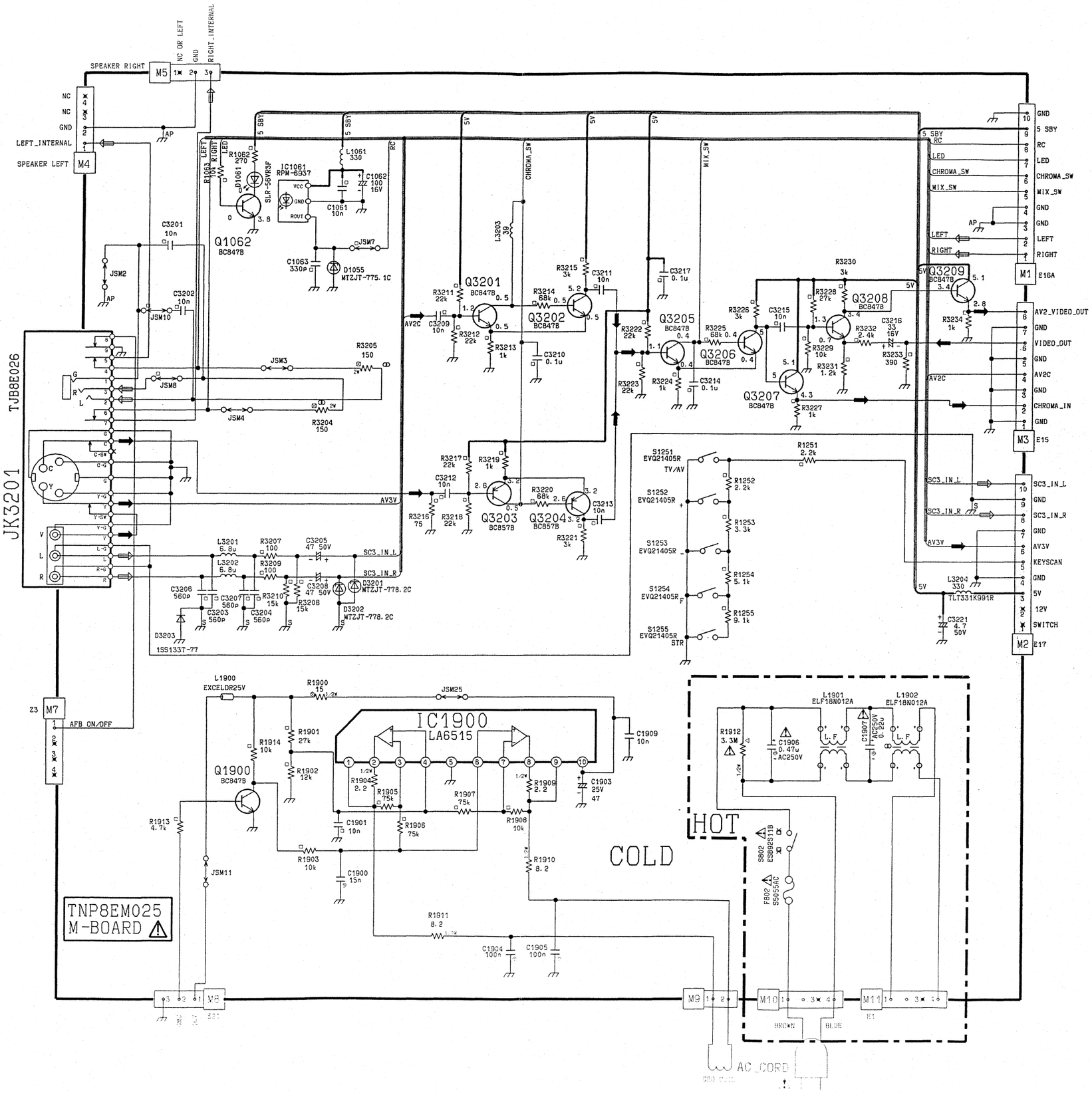
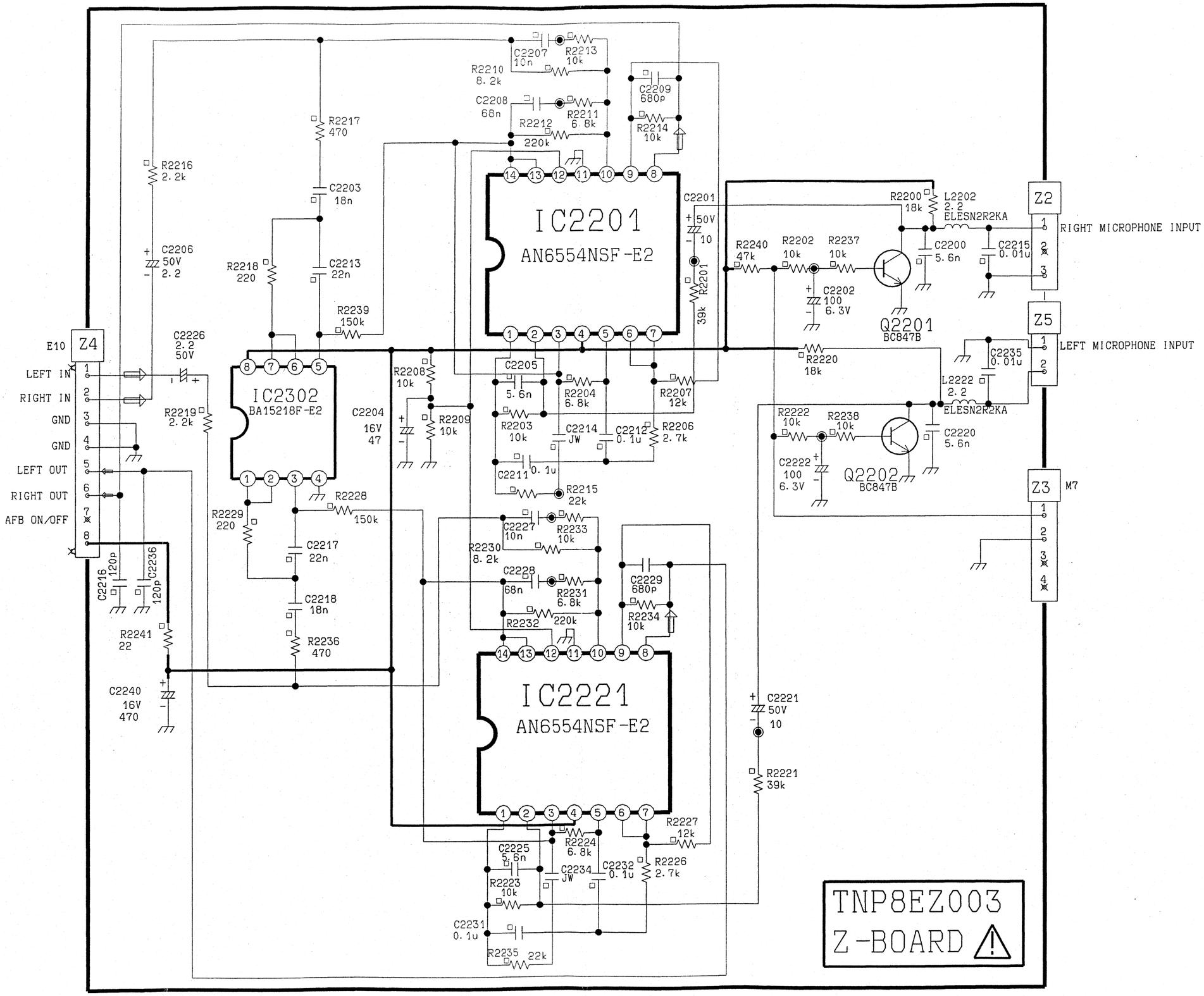
Q1510 BC857B
Q1511 BC857B
Q1512 BC847B
Q1513 BC847B
Q1514 BC847B
Q1515 BC847B

X1501 4736007267
X1502 4730007341

F1
E70


SPEAKER RIGHT
M5
NC OR LEFT
GND
RIGHT_INTERNAL
NC
NC
GND
LEFT_INTERNAL
SPEAKER LEFT
M4
AP
JK3201
TJB8E026
C3201 10n
C3202 10n
JSM2
JSM10
JSM3
JSM8
JSM4
R3205 150
R3204 150
L3201 6.8u
L3202 6.8u
R3207 100
R3209 100
C3205 47 50V
C3208 47 50V
SC3_IN_L
SC3_IN_R
D3201 MTZJT-778.2C
D3202 MTZJT-778.2C
C3206 560p
C3207 560p
C3203 560p
C3204 560p
R3210 15k
R3208 15k
D3203 1SS133T-77
5 SBY
5V
LED
RC
CHROMA_SW
MIX_SW
R1062 270
D1061 SLR-56VR3F
IC1061 RPM-6937
L1061 330
C1062 100 16V
C1061 10n
Q1062 BC847B
C1063 330p
D1055 MTZJT-775.1C
JSM7
L3203 39
Q3201 BC847B
R3211 22k
R3212 22k
R3213 1k
R3214 68k
Q3202 BC847B
C3209 10n
C3210 0.1u
C3211 10n
C3217 0.1u
AV2C
Q3205 BC847B
R3222 22k
R3223 22k
R3224 1k
R3225 68k
Q3206 BC847B
C3214 0.1u
R3226 3k
C3215 10n
Q3207 BC847B
R3227 1k
R3228 27k
R3229 10k
R3231 1.2k
Q3208 BC847B
R3230 3k
R3232 2.4k
C3216 33 16V
R3233 390
Q3209 BC847B
R3234 1k
AV3V
R3217 22k
R3219 1k
C3212 10n
R3216 75
R3218 22k
Q3203 BC857B
R3220 68k
Q3204 BC857B
C3213 10n
R3221 3k
S1251 EVQ21405R TV/AV
S1252 EVQ21405R
S1253 EVQ21405R
S1254 EVQ21405R
S1255 EVQ21405R STR
R1251 2.2k
R1252 2.2k
R1253 3.3k
R1254 5.1k
R1255 9.1k
L3204 330
TL1331K991R
C3221 4.7 50V
M1 E16A
M3 E15
M2 E17
AV2_VIDEO_OUT
VIDEO_OUT
CHROMA_IN
KEYSCAN
SWITCH
23 M7
AFB ON/OFF
L1900 EXCELDR25V
R1900 15
JSM25
IC1900 LA6515
R1901 27k
R1902 12k
R1914 10k
Q1900 BC847B
R1913 4.7k
R1903 10k
JSM11
R1904 2.2
R1905 75k
R1906 75k
R1907 75k
R1908 10k
R1909 2.2
C1901 10n
C1900 15n
C1903 25V 47
C1909 10n
R1910 8.2
R1911 8.2
C1904 100n
C1905 100n
TNP8EM025
M-BOARD
V8
M9
M10
M11
HOT
COLD
L1901 ELF18N012A
L1902 ELF18N012A
R1912 3.3M
C1906 0.47u AC250V
C1907 AC250V 0.22u
S802 ESB92511B
F802 S5055AC
BROWN
BLUE
AC_CORD


IC2201
AN6554NSF-E2
IC2302
BA15218F-E2
IC2221
AN6554NSF-E2
Q2201
BC847B
Q2202
BC847B
E10
Z4
Z2
Z5
Z3
M7
LEFT IN
RIGHT IN
GND
GND
LEFT OUT
RIGHT OUT
AFB ON/OFF
RIGHT MICROPHONE INPUT
LEFT MICROPHONE INPUT
ELESN2R2KA
ELESN2R2KA
R2210 8.2k
C2207 10n
R2213 10k
C2208 68n
R2211 6.8k
R2212 220k
C2209 680p
R2214 10k
R2216 2.2k
R2217 470
C2203 18n
C2206 50V 2.2
R2218 220
C2213 22n
R2239 150k
C2226 2.2 50V
R2219 2.2k
C2201 50V 10
R2201 39k
R2240 47k
R2202 10k
R2237 10k
C2202 100 6.3V
R2200 18k
L2202 2.2
C2200 5.6n
C2215 0.01u
R2220 18k
C2235 0.01u
L2222 2.2
R2222 10k
R2238 10k
C2220 5.6n
C2222 100 6.3V
R2208 10k
C2204 16V 47
R2209 10k
C2205 5.6n
R2204 6.8k
R2207 12k
R2203 10k
C2214 JW
C2212 0.1u
R2206 2.7k
C2211 0.1u
R2215 22k
R2228 150k
R2229 220
C2217 22n
C2218 18n
R2236 470
C2216 120p
C2236 120p
R2241 22
C2240 16V 470
C2227 10n
R2233 10k
R2230 8.2k
C2228 68n
R2231 6.8k
R2232 220k
C2229 680p
R2234 10k
C2221 50V 10
R2221 39k
R2227 12k
C2225 5.6n
R2224 6.8k
C2234 JW
C2232 0.1u
R2226 2.7k
R2223 10k
C2231 0.1u
R2235 22k
TNP8EZ003
Z-BOARD

TNP8EE013
E-BOARD ⚠

AFB

IC1104
MN1381-RTA

IC1102
M27C2000PC12

IC1105
MN1381-TTA

uP
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SDA5450C59

IC1103
BR24C16

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MSP3410DPOC5

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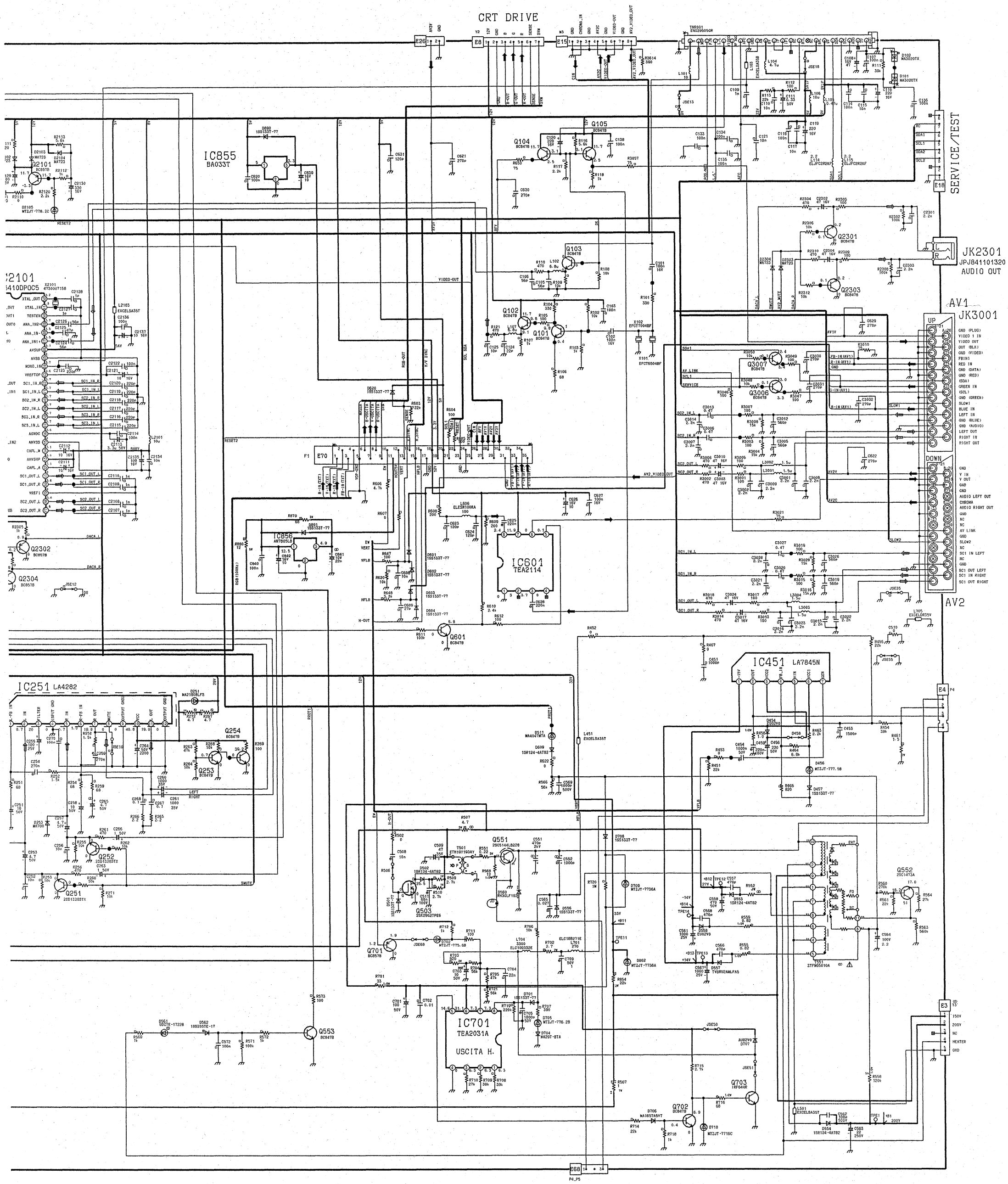
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IC251 LA4282
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IC701
TEA2031A
USCITA H.
IC856
AN7805LB
JK2301
JPJB41101320
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AV2
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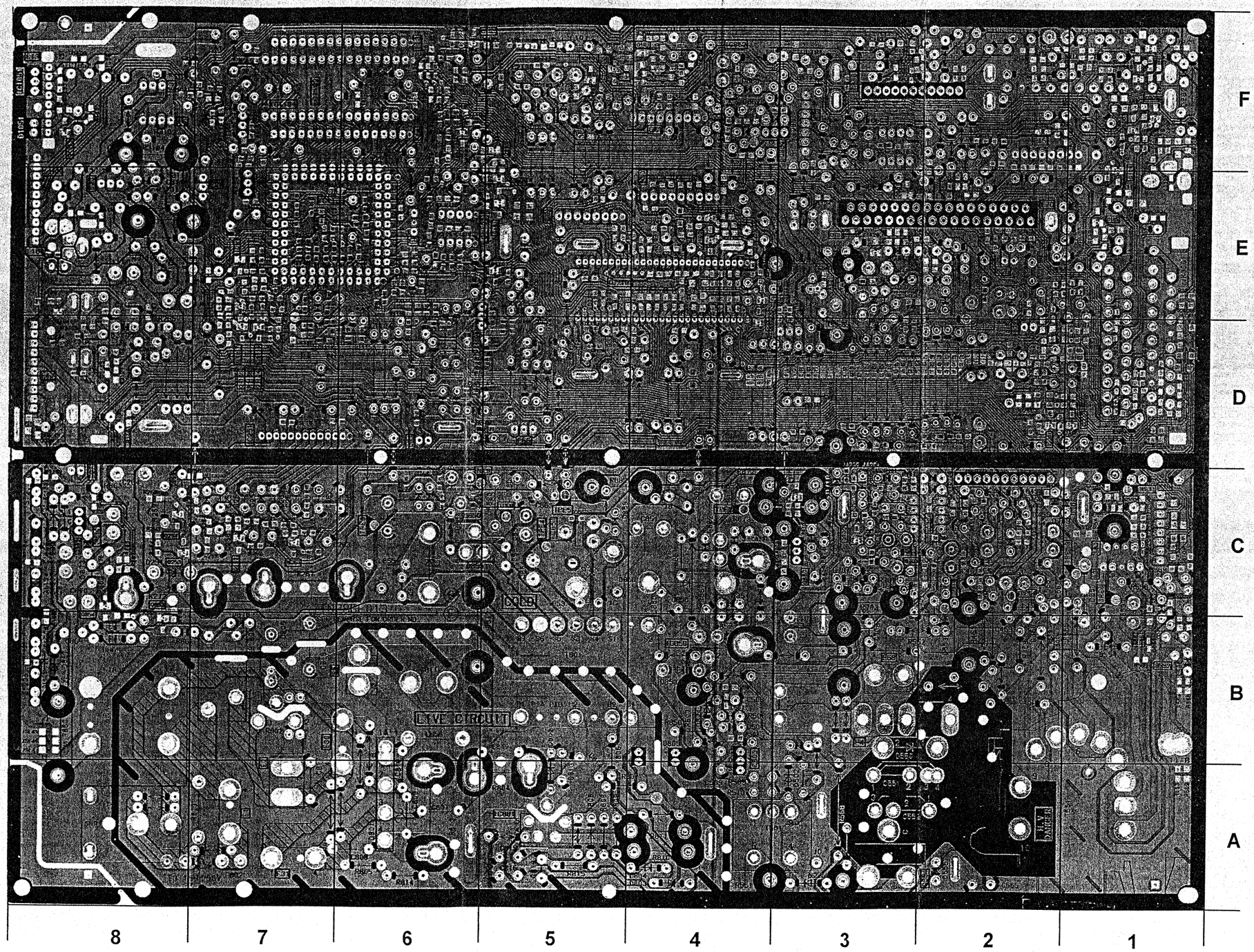
D2339
D2340
D2341
D2342
D2343
D2344

CONDUCTOR VIEWS FOR MODELS TX-28PL10D, TX-28PL10F
ANSICHT DER LEITERBAHNEN FÜR TX-28PL10D, TX-28PL10F

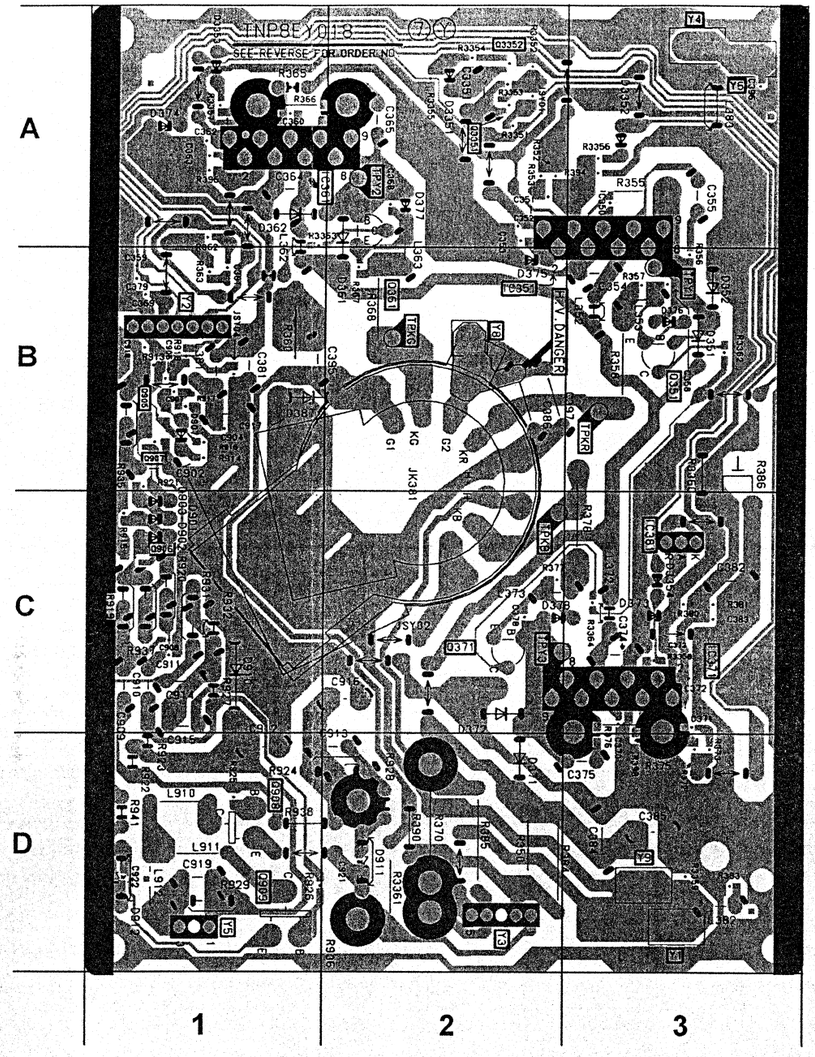
E-BOARD TNP8EE013

TRAN'S		D2104	F5	D858	C6
Q101	F4	D2105	F5	D859	C4
Q102	F5	D2303	D5	D861	F3
Q103	F5	D2304	D5	D862	F1
Q104	E1	D251	C7	D863	F5
Q105	E1	D253	C7	D865	F4
Q1051	E7	D254	C7	D866	F4
Q1104	D7	D453	E6	D867	B8
Q1105	D7	D454	C2	D868	B8
Q1106	D7	D456	C2	D869	B8
Q1107	D7	D457	C2	D870	B7
Q1108	F6	D458	C2	D871	C8
Q2101	F5	D501	B4	D873	C8
Q2102	E4	D502	A3	D874	B4
Q2103	D2	D511	C1	D875	C3
Q2302	E3	D553	B2	D890	E2
Q2303	D1	D554	B1	D891	E3
Q2304	D4	D556	A2		
Q251	C7	D557	C1	IC'S	
Q252	C7	D558	C2	IC1101	E6
Q253	C8	D560	B2	IC1102	F6
Q254	C8	D561	B1	IC1103	E6
Q3006	F1	D562	C1	IC1104	F7
Q3007	F1	D601	E2	IC1105	D5
Q451	E5	D602	E2	IC2101	E4
Q503	A4	D603	E2	IC251	D7
Q551	A3	D604	E2	IC451	C2
Q552	B1	D609	C1	IC601	F3
Q553	C1	D617	D8	IC701	C2
Q601	E3	D620	F3	IC801	A4
Q701	E3	D701	C3	IC850	B4
Q702	C3	D702	E3	IC851	C5
Q703	C3	D704	C2	IC852	F4
Q850	C5	D705	C2	IC853	F3
Q851	F5	D706	C3	IC855	E2
Q852	C8	D707	C3	IC856	E3
Q853	B8	D708	C1		
Q854	B8	D709	C2	TP'S	
Q855	C3	D710	C3	TPE1	C1
Q856	E5	D801	A6	TPE2	C4
Q857	C3	D803	A4	TPE3	C6
		D804	A4	TPE4	C5
DIODES		D805	B4	TPE5	C5
D101	F1	D806	A4	TPE6	F3
D102	F1	D850	C4	TPE7	F4
D1101	F1	D851	C4	TPE8	C5
D1104	C8	D852	B4	TPE9	C6
D1105	B8	D853	B4	TPE10	C8
D1131	F7	D854	C5	TPE11	C1
D2101	F5	D855	C5	TPE12	C2
D2102	F5	D856	C6	TPE13	C1
D2103	F5	D857	C6	TPE14	C2



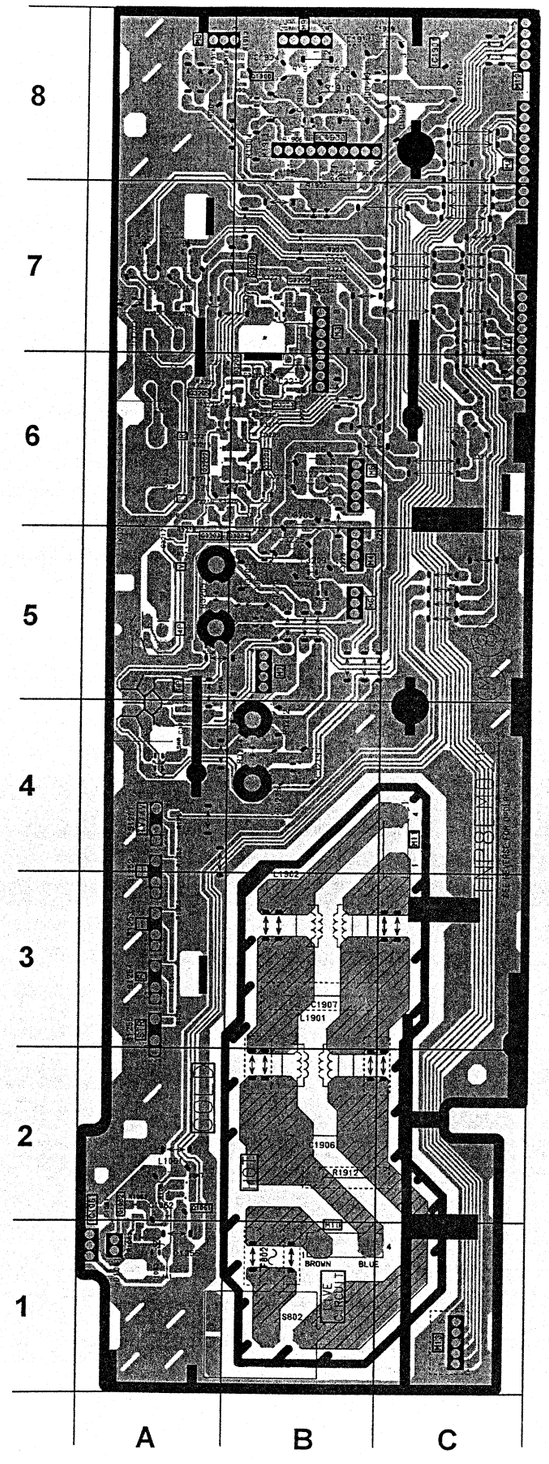
Y - BOARD TNP8EY018

TRAN'S	
Q3352	A2
Q351	B3
Q361	B2
Q371	C2
Q905	B1
Q906	C1
Q907	B1
Q908	D1
Q909	D1
DIODES	
D3351	A2
D3352	A3
D3353	A1
D3354	C3
D351	B3
D352	B3
D361	B2
D362	A1
D371	D2
D372	C2
D376	B3
D377	A2
D378	C2
D387	B1
D901	C1
D902	C1
D903	C1
D907	B1
D910	C1
I.C.'S	
IC351	A3
IC361	A1
IC371	C3
IC381	C3
T.P.'S	
TPY1	B3
TPY2	A2
TPY3	C3
TPKR	B3
TPKG	B2
TPKB	C2



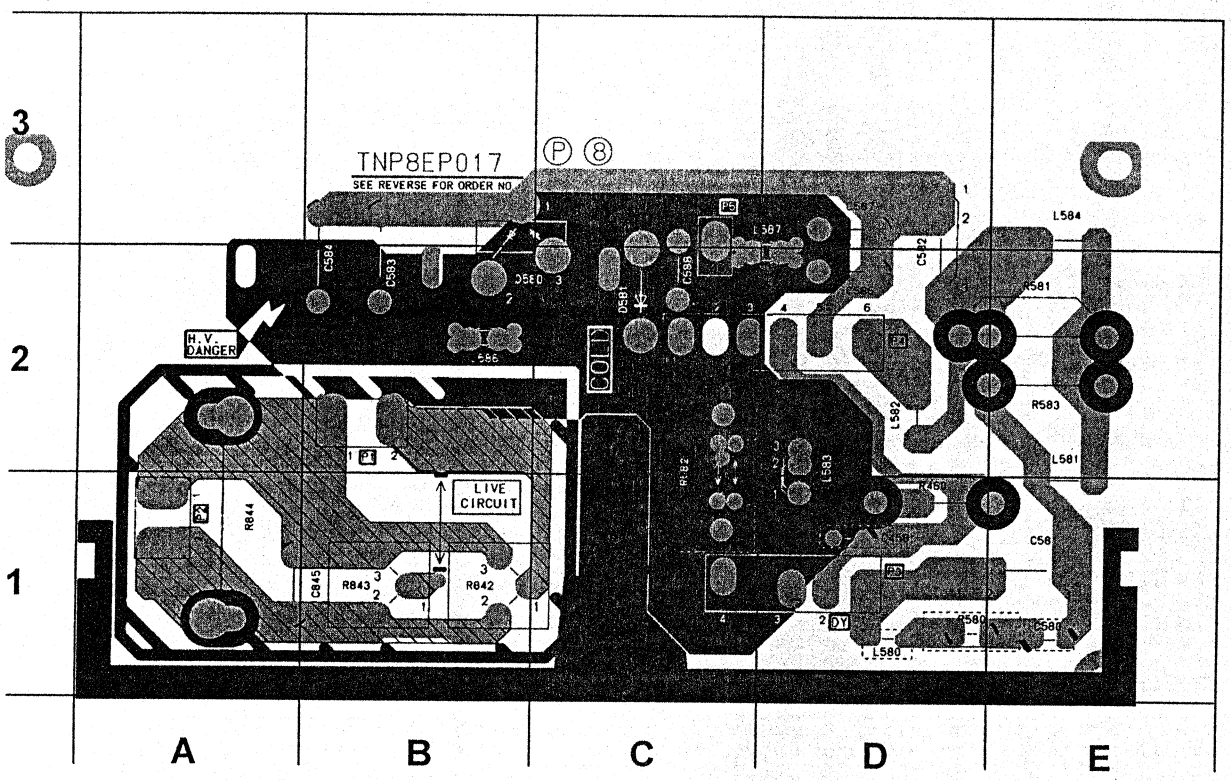
M - BOARD TNP8EM025

TRAN'S	
Q1062	A1
Q1900	B8
Q3201	B6
Q3202	A6
Q3203	A6
Q3204	B6
Q3205	A6
Q3206	B6
Q3207	B6
Q3208	B7
Q3209	B7
DIODES	
D1055	A1
D1061	A1
D3201	A7
D3202	A7
IC's	
IC1061	A1
IC1900	B8

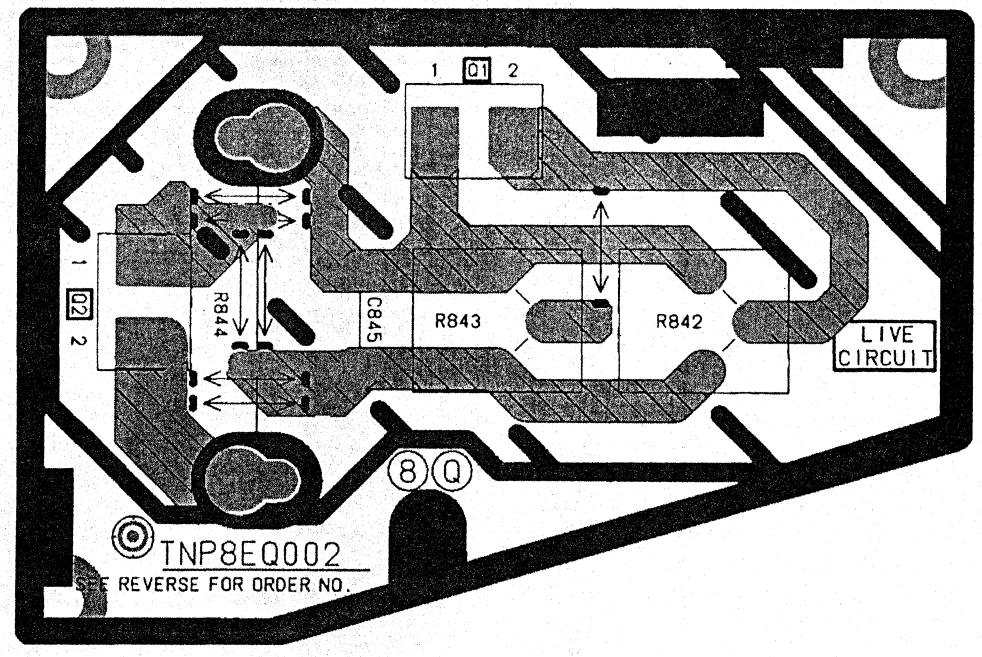


P - BOARD TNP8EP017

DIODES	
D580	B2

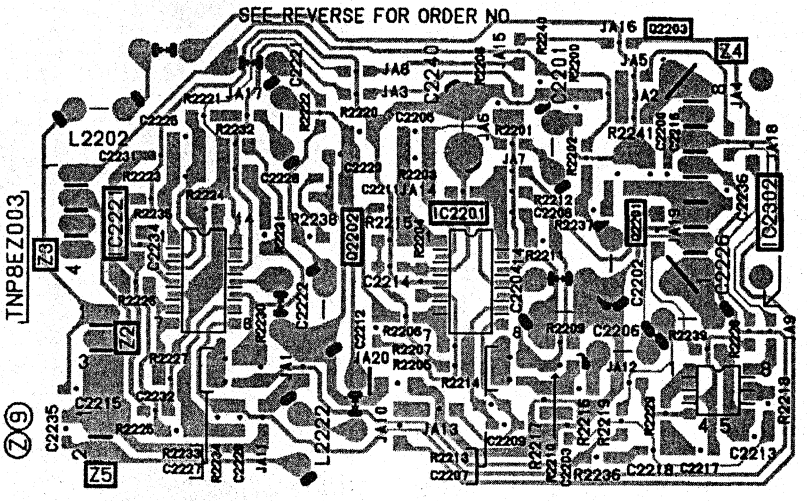


Q - BOARD TNP8EQ002



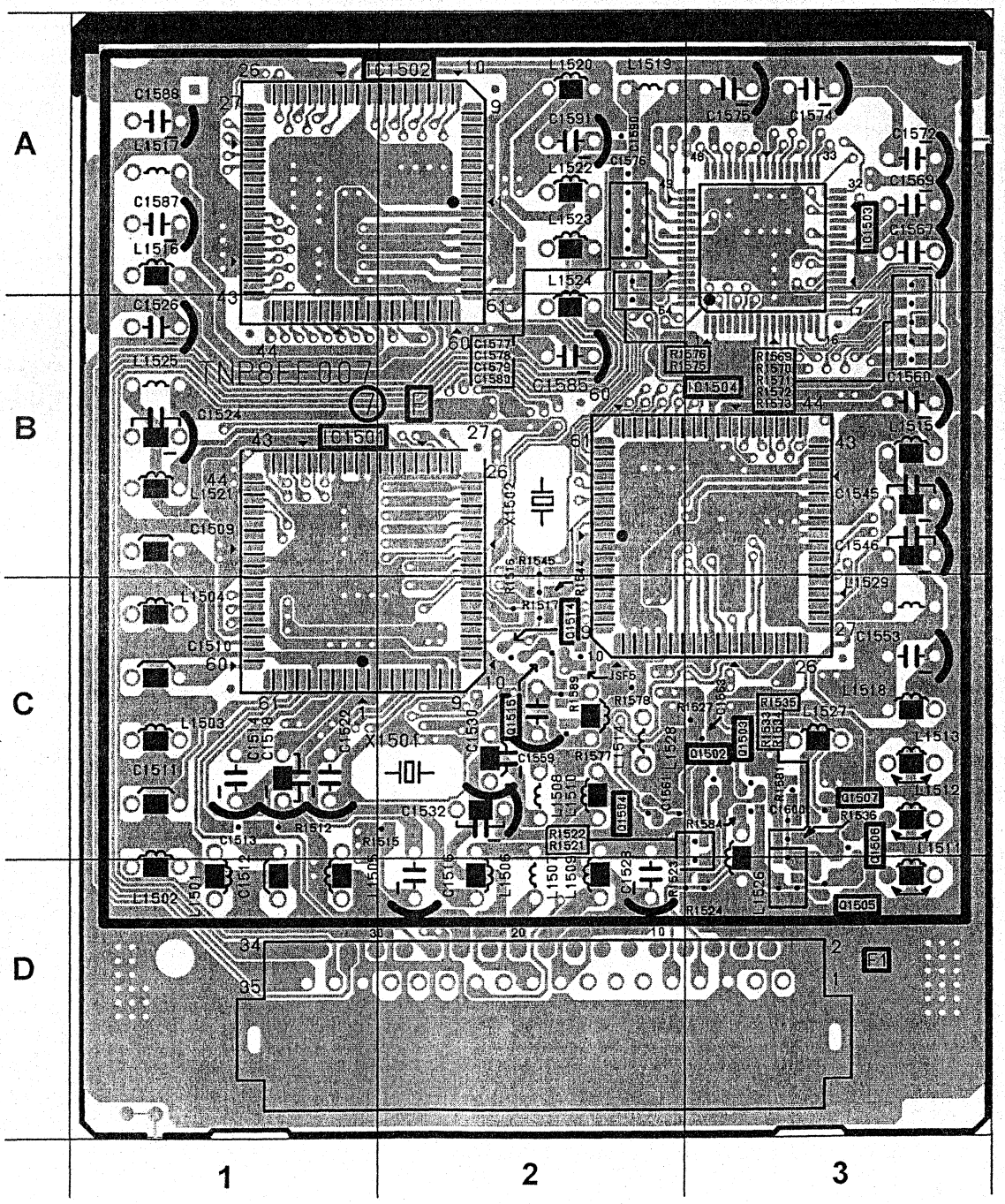
Z - BOARD TNP8EZ003

TRAN's	IC's
Q2201	IC2201
Q2202	IC2221
	IC2302



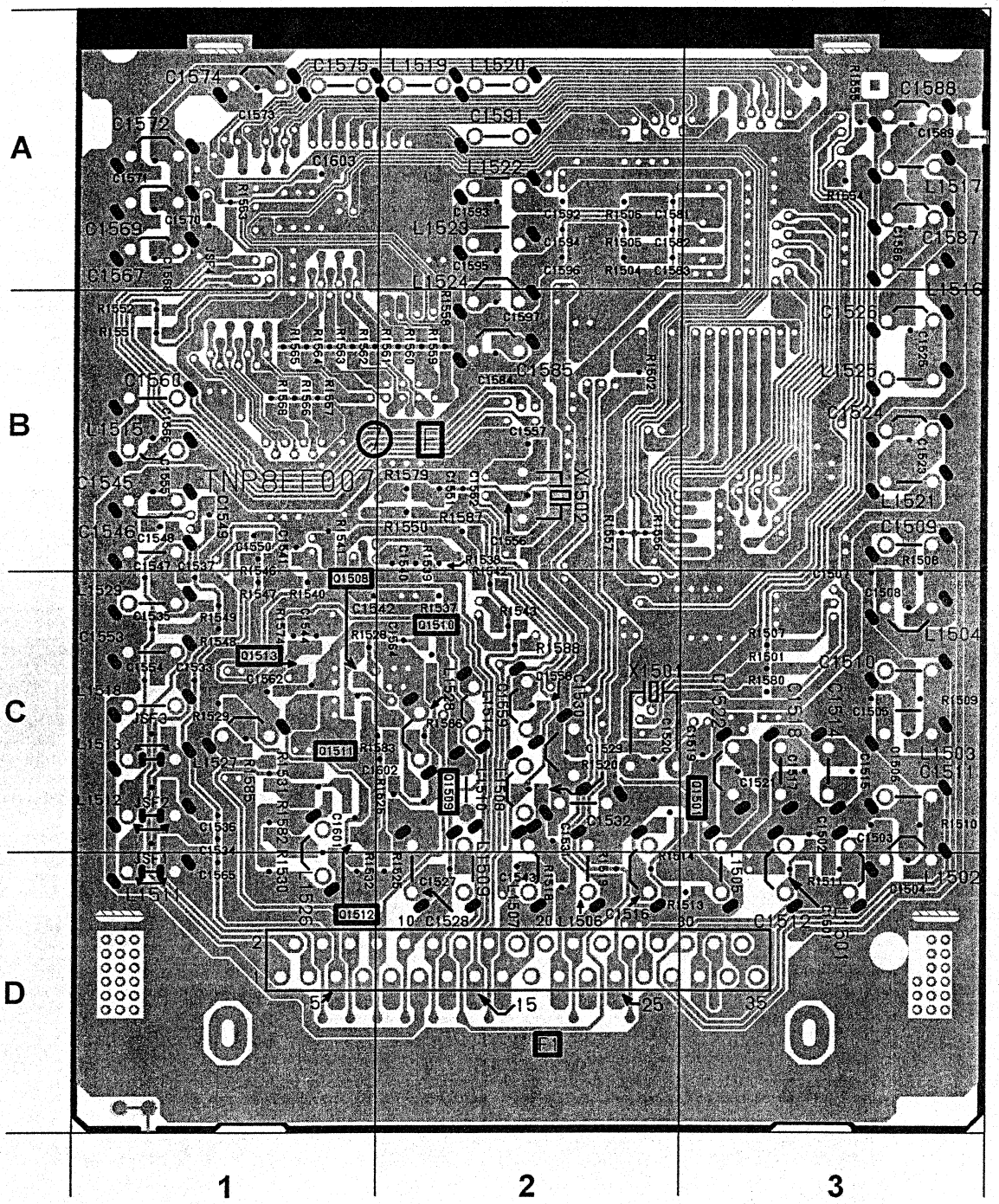
F - BOARD TNP8EF007

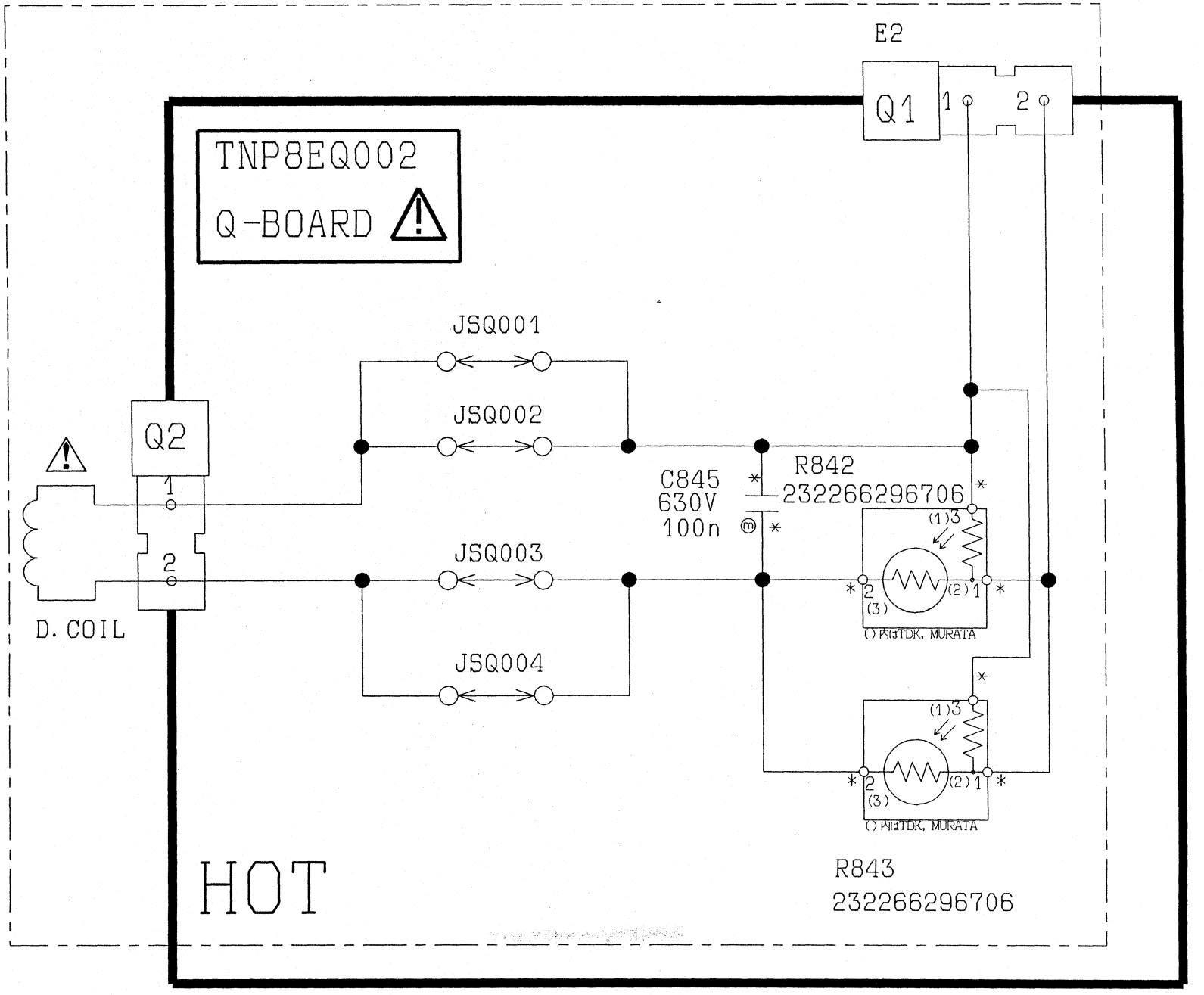
TRAN'S		I.C.'S	
Q1502	C3	IC1501	B1
Q1503	C3	IC1502	A2
Q1504	C2	IC1503	A3
Q1505	D3	IC1504	B3
Q1506	C3		
Q1507	C3		
Q1514	C2		
Q1515	C2		

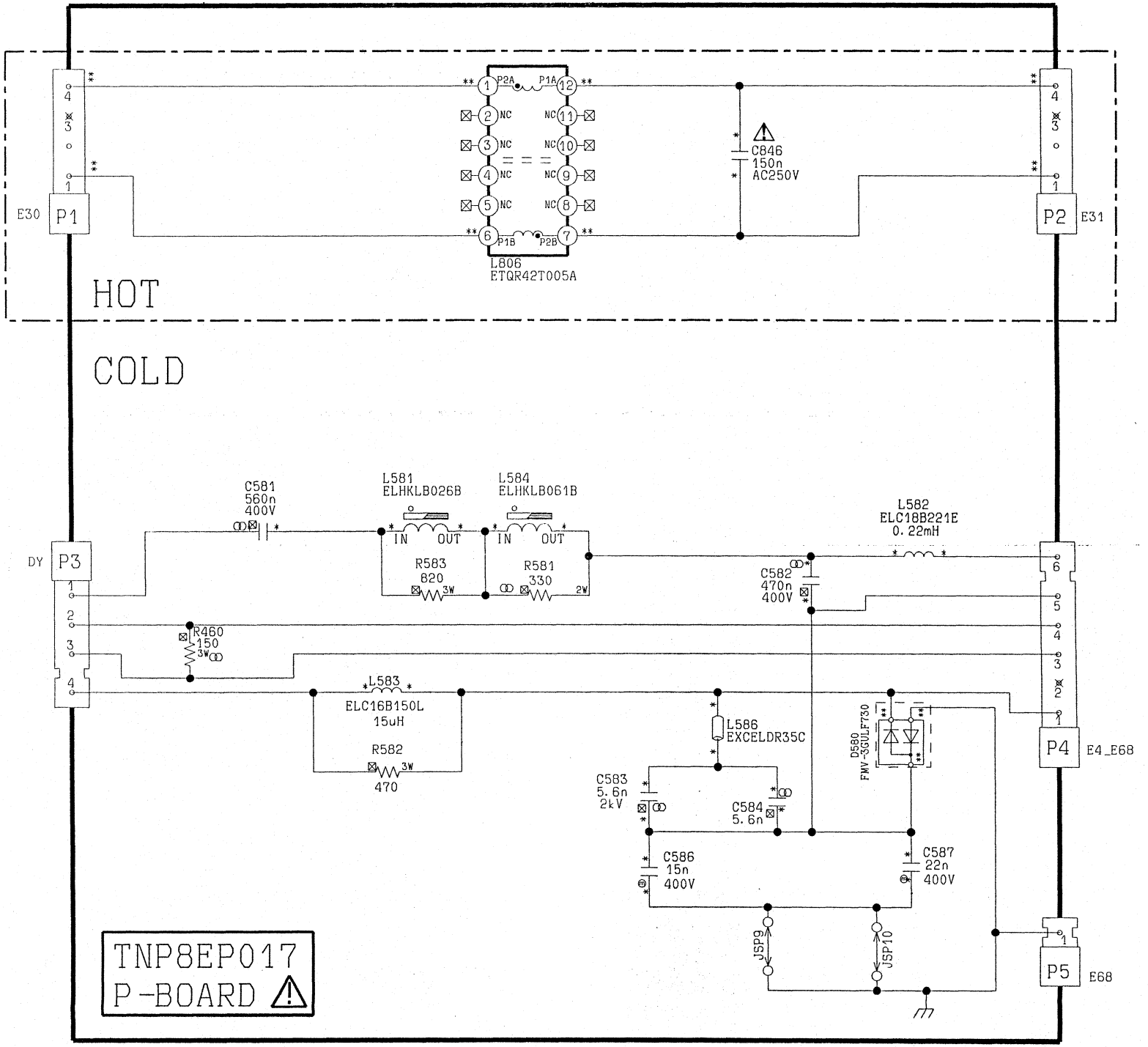


F - BOARD TNP8EF007

TRAN'S	
Q1501	C3
Q1508	C1
Q1509	C2
Q1510	C2
Q1511	C1
Q1512	D1
Q1513	C1




E2
Q1
1
2
TNP8EQ002
Q-BOARD
JSQ001
JSQ002
JSQ003
JSQ004
Q2
1
2
D. COIL
C845
630V
100n
R842
232266296706
(1)3
(2)1
(3)
() Ma:TDK, MURATA
R843
232266296706
HOT


HOT
COLD
E30
P1
P2
E31
L806
ETQR42T005A
C846
150n
AC250V
C581
560n
400V
L581
ELHKLB026B
L584
ELHKLB061B
IN
OUT
R583
820
3W
R581
330
2W
L582
ELC18B221E
0.22mH
C582
470n
400V
DY
P3
R460
150
3W
L583
ELC16B150L
15uH
R582
3W
470
L586
EXCELDR35C
D580
FMV-3GULF730
C583
5.6n
2kV
C584
5.6n
C586
15n
400V
C587
22n
400V
JSP9
JSP10
P4
E4_E68
P5
E68
TNP8EP017
P-BOARD